

MagTek Reader Management System (RMS)

Windows Application Installation and Operation Manual



April 2025

Document Number D998200581-411

REGISTERED TO ISO 9001:2015

Copyright © 2006 - 2025 MagTek, Inc. Printed in the United States of America

INFORMATION IN THIS PUBLICATION IS SUBJECT TO CHANGE WITHOUT NOTICE. MAGTEK CANNOT BE HELD LIABLE FOR ANY USE OF THE CONTENTS OF THIS DOCUMENT. ANY CHANGES OR IMPROVEMENTS MADE TO THIS PRODUCT WILL BE INCLUDED IN THE NEXT PUBLICATION RELEASE. IF YOU HAVE QUESTIONS ABOUT SPECIFIC FEATURES AND FUNCTIONS OR WHEN THEY WILL BECOME AVAILABLE, PLEASE CONTACT YOUR MAGTEK REPRESENTATIVE.

MagTek®, MagnePrint®, and MagneSafe® are registered trademarks of MagTek, Inc. MagensaTM is a trademark of MagTek, Inc. DynaProTM and DynaPro MiniTM, are trademarks of MagTek, Inc.

AAMVATM is a trademark of AAMVA.

American Express® and EXPRESSPAY FROM AMERICAN EXPRESS® are registered trademarks of American Express Marketing & Development Corp.

D-PAYMENT APPLICATION SPECIFICATION® is a registered trademark to Discover Financial Services CORPORATION MasterCard® is a registered trademark and PayPassTM and Tap & GoTM are trademarks of MasterCard International Incorporated. Visa® and Visa payWave® are registered trademarks of Visa International Service Association.

ANSI®, the ANSI logo, and numerous other identifiers containing "ANSI" are registered trademarks, service marks, and accreditation marks of the American National Standards Institute (ANSI).

ISO® is a registered trademark of the International Organization for Standardization.

UL[™] and the UL logo are trademarks of UL LLC.

PCI Security Standards Council® is a registered trademark of the PCI Security Standards Council, LLC.

EMV® is a registered trademark in the U.S. and other countries and an unregistered trademark elsewhere. The EMV 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.

The *Bluetooth*® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by MagTek is under license.

Google PlayTM store, Google WalletTM payment service, and AndroidTM platform are trademarks of Google Inc. Apple Pay[®], iPhone[®], iPod[®], Mac[®], and OS X[®] are registered trademarks of Apple Inc., registered in the U.S. and other countries. iPadTM is a trademark of Apple. Inc. App StoreSM is a service mark of Apple Inc., registered in the U.S. and other countries. IOS is a trademark or registered trademark of Cisco in the U.S. and other countries and is used by Apple Inc. under license.

Microsoft®, Windows®, and .NET® are registered trademarks of Microsoft Corporation.

All other system names and product names are the property of their respective owners.

Table 0-1 - Revisions

Rev Number	Date	Notes
10	May 2023	Initial Release
20	June 2023	Updated icon and content
30	June 2023	Updated Instructions for iOS and Windows and added a Glossary of Terms
40	October 2024	Complete rewrite. Converted to Windows OS specific manual, All images replaced with new UI layout; Added Sections 3 and 4
400	October 31, 2024	Add content to support MagneSafe V5 Products, Added 5 User Instructions (MagneSafe); Updated 3.2.2 Utilities to include Offline Mode and remove Test Mode, Added Log Output to Utilities, Added updated about screen image to Help; Added Appendix B Related Documentation; Updated Revision to new three digit scheme.
410	January 2, 2025	Update Copyright Dates
411	April 18, 2025	Update all figures in User Instructions (MagneSafe), Removed instructions for entering commands in User Instructions (MagneSafe).

Table of Contents

Table of Contents	4
1 Overview	6
1.1 Purpose	6
1.2 Benefits	6
Windows System Requirements	7
RMS Windows Application	7
2 Magensa Remote Services	8
2.1 Onboarding	8
3 Installation and User Interface	9
3.1 Installation	9
3.2 Tabs and Buttons	9
3.2.1 File	9
3.2.2 Utilities	10
3.2.3 Help	16
4 User Instructions (DynaFlex/DynaProx)	18
4.1 Connect to a PC	18
4.1.1 Open Device	19
4.1.2 Device Output	19
4.2 Profile Name	20
4.2.1 Check Configuration	20
4.3 Updates	21
4.3.1 Updates Successful	22
4.4 Commands	23
4.4.1 Valid Command	23
4.5 Exit	23
5 User Instructions (MagneSafe)	24
5.1 Connect to a PC	24
5.1.1 Open Device	25
5.1.2 Device Output	25
5.2 Profile Name	26
5.2.1 Check Configuration	26
5.3 Updates	27
5.3.1 Update Status	27
5.4 Exit	28
Appendix A Glossary of Terms	29

Appendi	x B Related Documentation	.30
B.1	Installation and Operation Manuals	.30
B.2	Programmers Manuals	.30
Appendi	x C Warranty and Software License	.31
C.1	Limited Warranty	.31
C.2	SOFTWARE LICENSE AGREEMENT	.33

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 iOS, Android and Windows, allowing flexibility in device management. (*See each OS specific 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.

MagTek Reader Management System (RMS)| Windows Application | Installation and Operation Manual

Windows System Requirements

The RMS app is designed to work with Windows 10 or newer Operating Systems.

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 each device to see which commands are affected. See **Appendix B Related Documentation**.

RMS Windows Application

- Windows Application (PN 1000009734)
- 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

A Remote Services (RS) account is required for billable services. An RS account is NOT required for non-billable services. Billing is triggered by RS activity (this middleware does not affect the billing mechanism within RS). Middleware operates between Magensa RS and the client application.

The primary feature of this middleware is enabling developers or users to auto-launch or perform singleclick actions within their application to:

- Load firmware for MagneSafe readers.
- Load both Main Firmware (FW) and Bluetooth Low Energy (BLE) Firmware.
- Load firmware by Device ID, allowing compatibility across multiple reader generations with different firmware versions.
- Load terminal and application settings.
- Load CAPKs (Certification Authority Public Keys).
- Load encryption keys.
- Load device configurations.

2.1 Onboarding

MagTek will provide the necessary Profile configurations and Web API Keys if requested.

3 Installation and User Interface

3.1 Installation

Begin by downloading the MagTek Reader Management System.



Open the MagTek Reader Management System Windows app.

3.2 Tabs and Buttons

The RMS application has three tabs available at the top of the window as illustrated below. These include **File**, **Utilities** and **Help**.

MAGTEK	READER MANAGEM	IENT SYSTEM W	INDOW	S V2		—	\times
File Utili	ities Help						
Type:	DynaFlex/DynaProx	✓ Interface:	USB	~	Scan		
Devices:			~	Open	Close		 e s testelle
Address:							

3.2.1 File

The File tab has one button, Exit.

• The **Exit** button closes the application and operates identically to the **Exit** button in the graphical user interface (GUI).

@ N	AGTEK READER	MANAGEN	IENT SYSTEM W	INDOW:	S V2		2 	Х
File	Utilities H Process File Exit	lelp Prox	✓ Interface:	USB	∽ Open	Scan Close		K NSIDE
Ado	dress:							

MagTek Reader Management System (RMS)| Windows Application | Installation and Operation Manual

3.2.2 Utilities

The Utilities tab has 9 active buttons for use with DynaFlex/DynaProx devices, **Offline Mode** is reserved for use with MagneSafe Devices.

@ M/	AGTEK I	READER MANAGEMENT	SYSTEM W	INDOW:	5 V2 (Online	e)			×
File	Utilit	ies Help							
1		WebAPIKey	face:	USB	~	Scan	MAC	FTE	K
Dev		Clear Screen		~	Open	Close	SECURITY F	3DM THE	NSIDE
Add	r	Detect Device							
De		GetEMVConfigs GetConfigList					Updates		
6.		Check Tag Updates					EMV Ta	as/CAPKs	
Co		Always Update Offline Mode				~	Configs		_
		Auto Start			Check	Config	Up	date	
D		Auto Close							
2	~	Log Output							
Comr	mand:								Send

- Web API Key: The customer will select this button if they have their own custom Web API Key. This information will be provided by Magensa during onboarding.
- **Clear Screen**: This button removes all content from the Output field, performing the same function as the **Clear** button in the graphical user interface (GUI).

Output:	Clear
	~
	Exit

• **Detect Device**: This button scans for devices connected to the PC used for interfacing. It operates identically to the **Scan** button in the graphical user interface (GUI), prioritizing the first detected USB connection.



• **GetEMVConfigs**: This feature is only available on MagneSafe devices and is not supported on DynaFlex or DynaProx devices. It retrieves device information and logs the data.



• **GetConfigList**: This button performs the same function as the **Check Config** button in the graphical user interface (GUI). It retrieves the device's current configuration and populates all available configurations in the Configurations dropdown tab.



• Check Tag Updates: this button will check if the current EMV Tags and CAPKs are up to date and report the results in the output log.



• Always Update: When this button is selected, the device will automatically update if its configuration version is lower than the version indicated in the Version field in the GUI. Selecting this button will suppress the "Yes/No" popup dialog (see image below) when an update is available.



The RMS application keeps track of configuration versions in the GUI by indicating a value in Version field as illustrated below. The user may enter 0 in this field to force an update.

	1	Firmware
Profile:	MagTekTest	EMV Tags/CAPKs
Configurations	: DFLXReloadDefaultMagnePrintKeyAes256Slot20 V	
Version	1 Check Config	Thedate

• Offline Mode (MagneSafe Devices Only): This button should be selected when the user does not want the RMS application to retrieve firmware or configuration data from external Online sources. The user must make prior arrangements with Magensa to obtain the relevant files and instructions needed for Offline Mode to work properly. This button does not work with DynaFlex/DynaProx devices.



• Auto Start: When this button is selected, the RMS application will automatically start after launching the application.



• Auto Close: When this button is selected, the application will automatically close when all updates are complete.



• Log Output: When this button is selected, it will enable RMS to store output details in a log file. To see the Log, the user can go to **Help** tab and select the **Show Log** button. For more details about the Help tab, see **3.2.3 Help**.

File	Utilities	Help
T	Wel	bAPIKey
Devi	Clea	ar Screen
Addr	Det	ect Device
	Get	EMVConfigs
De	Get	ConfigList
	Che	eck Tag Updates
Cor	Alw	ays Update
	Offl	ine Mode
	Aut	o Start
De	Aut	o Close
00	 Log 	Output

3.2.3 Help

The Help Tab contains the About, FAQs and Show Log File options.

MAGTEK READ	ER MANAGEMENT SYST	EM WINDOWS V	2 (Online)
File Utilities	Help		
Type: Magn	About	e: USB	✓ Scan
Devices:	FAQs	~	Open Obse
Address:	Show Log File		

• **About**: this button displays a window with the name of the application, the version, and application PN number.

File Utilities	Help	1	
Type: Magn	About	e: USB	Scan
Devices:	FAQs Show Log File	~	Open Glose
oout MagTek Read	er Management System Reader Managem Release Version: ↑ Copyright ∉ 2021 MagTek, Inc.	ent System V201 -2025	>
	Part Number: PN Build Version: 2.0.	1000009734 0.49	^

• **FAQs**: this button takes the user to the MagTek.com support page.

MAGTEK READ	ER MANAGEMENT SYS	FEM WINDOWS	V2 (Online))
File Utilities	Help	12		
Type: Magn	About	: USB	~	Scan
Devices:	FAQs		Open	Chile
Address:	Show Log File			

• Show Log File: this button displays txt file log of events only when a device is connected, and the Log Output button is checked in the Utilities Tab. This information is tied directly to the device serial number.



	ua (* 14
Fix 551	View
1	
18/89/2824	15:43:58:: Sand Command: [000124]
10/01/2024	15:43:36:: [Junt]pps.Decir#leasense: [0000313030303030303313039443000]
10/09/2024	15:43:58:: feepetes: [0000313836303838373136354A3800]
10/09/2024	15:43:58:: Send Command: [2100]
10/05/2024	-15:43:38:: EventSupe.NexiceRespons: [001F425534365555533851325452344341009028010054655500000002721708F7]
10/09/2024	15:45:58:: Mexponse: [001F4215343635153338313234323441410990300100546555000000027217687]
10/09/2024	15:43:58:: 5end Command: [0900]
10/00/2024	15:43:58:: fxentTure.Decisifescone: [000/00100100540555000000]
18/20/2024	15:43:58:: Response: [800/00100540553000000]
10/00/2028	15:63:58:: Seid Command: 000123
10/00/2024	15:63:59:: ExectInte.DeviceMensorum: [000F425534363553333831125432544141]
10/20/2024	15:43:59:: Response: [20074235145635355330011121452344241]
10/09/2024	35:43:59:: Send Command: [1982]
10/09/2024	15:45:59:: DeextType.DeviceSexpone: [00248235343635353533311234523441410040534343545835434345454565357358
10/29/2024	15:63:59:: Response: [902662353636353533303132363236614009053630354303543036301F7M326456833C7390650]
10/00/2026	15:66:13:: Send Command: [099116]
10/00/2024	15:64:11:: CheckEinmareDnling:: Requestibl: [https://devgw.magenus.dev/vms/api/Firmware/NIR-001F42353301555
1024423534	363535333401323433340143404053434054535436303177445245093C79484508F57464741D-00003130903030303971131994434888770
10/00/2024	15:00:00:: DisckEirmeareDollog:: Server response:
1	
"Name":	"100007369",

```
MagTek Reader Management System (RMS)| Windows Application | Installation and Operation Manual
```

4 User Instructions (DynaFlex/DynaProx)

4.1 Connect to a PC

Select the device Type and Interface before connecting the device to your Windows PC. This application has no auto scan feature, the user must click **Scan** when ready to scan for devices.

e Utilitie	s Help	1 313100 1	1100113				-	
Type: Dy	maRex/DynaProx 🗸	Interface:	USB	~	Scan	MAC	FTE	K
evices:	naRex/DynaProx sgneSafe		×	Open (Dose	DECLENTY PP	CAVE THE	CORE
dress:					_			
Device						Updates		
Profile	MagTek_Produc	tion				E Fittwate	ALC APRA	
Configuration	- (B				1	Configs	7051007	
Versi	0 :no			Dwelk Car	ric i	10	date.	
					1			
Details:								
mmand:								Secol
put:								Dear
/22/2024 12	3:10:59 Device Inserter	4.						
		F0						
							_	
								Ext

4.1.1 Open Device

MAGTEK READER MANAGEMENT SYSTEM WINDOWS V2	- 0 >
File Utilities Help	
Type: DynaFlex/DynaProx ~ Interface: US8 ~ Scan	MAGTEK
Devices: [USB DynaRex] B678485 Com	CALCUMENT PROVETING THE PEOP
Address: \\?\hid#vid_08018pid_2020#6857b6329808	
Device	Updates
Profile: MagTek_Production	Pinnware
Configurations:	EMV Tags/CAPKs
	Configs
Version: 0 Check Config	Update
Detais:	
Dutput:	Gear
10/22/2024 13:10:59 Device Inserted. 10/22/2024 13:13:35 Scanning for devices 10/22/2024 13:13:36 Scanning for devicesdone 10/22/2024 13:15:05 SenalNumber: B678485 10/22/2024 13:15:06 FirmwareID: 1000008594-AA4-PRD 10/22/2024 13:15:06 BLEFirmwareID: 10/22/2024 13:15:06 WLANFirmwareID: 10/22/2024 13:15:06 Main Label: [DynaFlex II PED] 10/22/2024 13:15:06 Retrieving information from devicedone	

4.1.2 Device Output

When successfully opened, the device will display data such as the serial number and firmware ID number at the bottom of the window in the **Output** field. This information will be necessary when contacting MagTek Support.



4.2 Profile Name

Find the "Profile Name" field. The default Profile Name is set to "MagTekProd," for production devices. It controls access to files used in MagTek's standard production deployments.

Note: the examples provided in this document will use the "MagTekTest" profile.

Profile: Mag	ek Test		Firmware
onfigurations:		(_) EMV Tags/CAPKs _) Configs
Version:		Check Config	Update

If you want to customize your RMS profile, you will need to contact your sales representative to create a unique profile.

4.2.1 Check Configuration

The RMS application allows users to check a device's current configuration and change it. The profile will dictate which configurations auto populate in the dropdown Tab. To check the configuration of a device, click **Check Config.**

	ER MANAGEMENT SYSTEM WINDOWS V2	- 0 ×
ile Utilities	Help	
Type: DynaF	lex/DynaProx 🗠 Interface: USB 😪	
evices: (USB)	DynaRex) B559965 🗠 🛛 📿	Close
uldress: D#(4d)	l#59b2410-11d-88cb-001111000030)	
Device		Updates
Profile:	MagTek_Production	C Femware
Configurations:	ReloadMagenaaPiktKey9070040	EMV Tags/CAPKs
		Configs
Musion:	Oreck C	onfig: Update
Details: Rek	ad Magenia Plot DES2-DURPT Key (\$070040) For Dyn	aRex and DynaProx Devices
Details: Rek	ad Magensa Plot DES2-DUKPT Key (\$070040) For Dyn	after and DynaProx Devices
Details: Reic	ved Magensia Pliot DES2-DUKPT Key (\$070040) For Dyn	after and DynaProx Devices
Details: Relo command:	ad Magensa Plot DES2-DUKPT Key (\$070040) For Dyn 45 Otecking for configuration lat 45 Otecking for configuration lat	after and DynaProx Devices
Details: Rel onemand: Aput: 0/22/2024 13:29 0/22/2024 13:29	AS Overking for configuration lat 45 Overking for configuration lat 45 Decking for configuration lat	after and DynaProx Devices
Details: Rek onenand: Mout: 0/22/2024 13:29 9/22/2024 13:29	ad Magenia Plot DES2-DURPT Key (\$070040) For Dyn 45 Olecking for configuration lat 45 Olecking for configuration latdone	affex and DynaProx Devices
Details: Rek command:	ad Magenia Plot DES2-DURPT Key (\$070040) For Dyn 45 Ovecking for configuration lat 45 Ovecking for configuration lat	after and DynaProx Devices
Details: Rel command:	AS Overking for configuration lat 45 Overking for configuration lat 45 Overking for configuration lat	aRex and DynaProx Devices
Details: Rek Command:	45 Ovecking for configuration list 45 Ovecking for configuration list 45 Ovecking for configuration listdone	affex and DynaProx Devices

A list of available configurations will appear in the Details field.

Type: DynaF	Bex/DynaProx 🗸 Inter	face: USB	~ Scar	MAGTE	EK
evices: [USB]	Dynaflex] BE000B3	~	Open Close	SECURITY FROM THE	(Vial
ddress: 0#{4d1	le55b2f16f-11cf-88cb-00	1111000030}			
Device				Updates	
Profile:	MagTek_Production			Firmware	
Configurations:	ReloadMagensaPilotKe	y9070040	~]	EMV Tags/CAPKs	3
Version:	ReloadMagensaPilotKe Mask4Zero4	y9070040			

- When working with a customer created Profile, the user should have knowledge of the configuration list. Their organization is involved in the Profile creation with Magensa. The end operator should be told ahead of time which configuration to select.
- When working with a public MagTek Profile, the user may have to consult MagTek Support to determine the function of specific configurations.

4.3 Updates

When a MagTek reader is connected, the user can press the **Update** button to update the device's Firmware, EMV Tags and/or Certificate Authority Public Keys (CAPKs).

The user can check which updates the device will receive. Once the updates have been checked, press **Update**.

Device		Updates
Profile:	MagTekTest	Firmware
Configurations:	DFLXLoadDefaultMagnePrintKeyAes256Slot2002_A213C $ \smallsetminus $	 EMV Tags/CAPKs Configs
Version:	1 Check Config	Update

Note: Do not press **UI Buttons** or disconnect the device while firmware updates are in progress. The user will be prompted to click **Yes** or **NO** for each update that will be performed.

Main Firmware Update 🛛 👋	CAPKKEY Device Con	figuration Update	
Do you want to update the Main firmware? DYNAFLEX II PED MAIN APP PROD, Version AA4 Released 05/30/2024 1000008594 - FIRMWARE, DYNAFLEX II PED MAIN APP PROD	Do you want to upda	te the CAPKKEY Co	nfiguration?
- Firmware revision from AAS to AA4 Reason For Change: - New features: Flash LED while battery in charging if the device is in idle - Bug Fix: Sometime bar code scanning is generating a long beep sound after several reads Yes No		Yes	No
AMEXDRL Device Configuration Update			
Do you want to update the AMEXDRL Configuration?			

4.3.1 Updates Successful

When the update process is complete, the Details field will display: ...done indicating the update is successful.

Note: The Details and Output field will display both successful updates and any failures when verifying update status.

Output:	Clear
10/21/2024 15:38:32 SENDFILE Response: 10/21/2024 15:38:32 Update Configuration: MagTekDefaultProductionUIFlexibleConfig 10/21/2024 15:38:32 ====================================	
10/21/2024 15:38:41 Updating Configuration MagTekDefaultProductionUIFlexibleConfig done	1
	Exit

4.4 Commands

Navigate to the Command field to enter a command.

• Please see the individual device's Programmer's Manual for a full list of Commands.

4.4.1 Valid Command

When a valid command is entered, the Output field will return a response command that can be crossreferenced with a known response command to verify functionality. Command Request and Response examples can be found in the individual device's Programmer's Manuals.

ile Utilities	Help	
Type: Dynaf	lex/DynaProx 🛩 Interface: USB 🛛 🗸 🌜	MAGTEK
Devices: (USB)	JynaRex] 8678485 - Open Go	SECURITY FROM THE MORE
Address: 0#(4d)	e55b2#16/-11cf-88cb-001111000030)	
Device		Updates
Profile:	MagTek_Production	Amware
Configurations:	ReloadMagensaPilotKey9070040	EMV Tags/CAPKs
No.		Configs
Version:	Check Config	Update
Detain:		
ommand: AA	008104010018018405180180110E	Send
utput:		Cerr
0/22/2024 13:42	50 Send command: (&&008104010019018405180180110E	1
0/22/2024 13:42	50 Response: [AA00810482001801820480010102]	1

Be sure to enter a Valid HEX String with no spaces between the bits, the application will not recognize Hex strings with spacing between bits.



4.5 Exit

Press the **Exit** button to close the application.

MagTek Reader Management System (RMS) | Windows Application | Installation and Operation Manual

5 User Instructions (MagneSafe)

5.1 Connect to a PC

Select the device Type and Interface before connecting the device to your Windows PC. This application has no auto scan feature, the user must click **Scan** when ready to scan for devices.

MAGTEK REAL	VER MANAGEMENT SYSTEM WINDOWS V2 (Online)	- 0 x
Type: Magn Devices Dynai	resp esde v Rex/DynaProx Stron La ho La	
Device Polie Configurations	MagTels_Production	Updates Priman D ENV Tags/CAPK Configs Update
Details:		÷
Mput 4/17/2025 14.2 4/17/2025 14.2 4/17/2025 14.2 4/17/2025 14.2 4/17/2025 14.2 4/17/2025 14.2	524 Device information: 524 Product: IDYNAMO5GENIII 524 Serial Number: 850EF57 524 FirmwareID: 0000001231303030303030393534362D4147 524 FirmwareID: 0000001231303030303030393534362D4147 524 Ohecking for configuration list	332D54584E

5.1.1 Open Device

After scanning for a device is complete, click **Open**.

Type: Magne	Safe ~ Interface: USB ~ See	MAGTEK
Devices: B50EF	57	SECURITY FROM THE INSID
ddress: \\?\hid	#vid_08018pid_0020#784af3cf18080	
Device		Updates
Profile:	MagTek_Production	Firmware
Configurations:	iDynamo5GenIII_EnablePushButton	EMV Tags/CAPK
	Force Update Check Config	Update
Command:		Send
Auput: 4/17/2025 14:37 4/17/2025 14:37 4/17/2025 14:37 4/17/2025 14:37 4/17/2025 14:37 4/17/2025 14:37 4/17/2025 14:37 4/17/2025 14:37 4/17/2025 14:37 4/17/2025 14:37	29 FirmwareID: 0000001231303030303030393534362D41473 29 ====================================	32D54584E

5.1.2 Device Output

When successfully opened, the device will display data such as the serial number and firmware ID number at the bottom of the window in the **Output** field. This information will be necessary when contacting MagTek Support.

		Exit
04/17/2025 04/17/2025 04/17/2025 04/17/2025 04/17/2025 04/17/2025	14:37:31 Serial Number: B50EF57 14:37:31 FirmwareID: 00000012313030303030393534362D4147332D54584E 14:37:31	
04/17/2025 04/17/2025 04/17/2025 04/17/2025 04/17/2025	14:37:29 FirmwareID: 00000012313030303030393534362D4147332D54584E 14:37:29 14:37:31 14:37:31 Device information: 14:37:31 Device information: 14:37:31 Product: IDYNAMO5GENIII	
Output:		Clear

MagTek Reader Management System (RMS) | Windows Application | Installation and Operation Manual

5.2 Profile Name

Find the "Profile Name" field. The default Profile Name is set to "MagTek_Production," for production devices. It controls access to files used in MagTek's standard production deployments.

an a			
Profile:	MagTek_Production		Firmware
			EMV Tags/CAPK
Configurations:	iDynamo5GenIII_EnablePushButton	~	Configs
	Force Update	Check Config	Undate

If you want to customize your RMS profile, you will need to contact your sales representative to create a unique profile.

5.2.1 Check Configuration

The RMS application allows users to check a device's current configuration and change it. The profile will dictate which configurations auto populate in the dropdown Tab. To check the configuration of a device, click **Check Config.**

A list of available configurations will appear in the Details field.

MAGTEK READER MANAGEMENT SYSTEM WINDOWS V2 (Online) (Online)	- 0 >
Rie Utilities Help	-
Type: MagneSale Interface: USB Con	MAGIEK
Devices: 85/EF57 V Cove	
kikress: \\7-bid#vd_08018pid_0020#784aF3cf18080	
Device Profile: MagTek_Production	Updates Finisare
Configurations: Dynamo5GenIII_EnablePushButton	
Detais: OynamoSGenill DaablePublikutun Detais: Ensi OynamoSGenill ErableQwartumMode OynamoSGenill ErableNormalMode OynamoSGenill SetitefaceType_HID OynamoSGenill SetitefaceType_JAP2	Sec
DynamoSGenill_SethtefaceType_OneTimeAutomatic	Oce
94/17/2025 14:37:29 Firmware(D: 0000001231303030303935343620414733205 94/17/2025 14:37:39 94/17/2025 14:37:31 94/17/2025 14:37:31 Product: IDYNAMD5GENIII 94/17/2025 14:37:31 Product: IDYNAMD5GENIII 94/17/2025 14:37:31 Serial Number: B50EF57 94/17/2025 14:37:31 Firmware(D: 000000123130303030303835343620414733205 94/17/2025 14:37:31 Firmware(D: 000000123130303030303835343620414733205 94/17/2025 14:37:31 Firmware(D: 000000123130303030303835343620414733205 94/17/2025 14:37:31 Firmware(D: 000000123130303030303835343620414733205 94/17/2025 14:37:31 Firmware(D: 0000001231303030303030303835343620414733205 94/17/2025 14:37:31 Firmware(D: 0000001231303030303030303030303030303030	4534E ** 4584E
14/17/2925 14:37:32 Checking for configuration list_done	Ee

- When working with a customer created Profile, the user should have knowledge of the configuration list. Their organization is involved in the Profile creation with Magensa. The end operator should be told ahead of time which configuration to select.
- When working with a public MagTek Profile, the user may have to consult MagTek Support to determine the function of specific configurations.

5.3 Updates

When a MagTek reader is connected, the user can press the **Update** button to update the device's Firmware and Configs.

The user can check which updates the device will receive. Once the updates have been checked, press **Update**.

Device		(Updates
Profile:	MagTek_Production		Firmware
Configurations:	iDynamo5GenIII_EnablePushButton	~	Configs
	Force Update	Check Config	Update

Note: Do not press **UI Buttons** or disconnect the device while firmware updates are in progress.

5.3.1 Update Status

When the update process is complete, the Details field will display: **The installed Main firmware is newer than currently available on this update service**. If the current configuration is up to date.

Note: The Details and Output field will display both successful updates and any failures when verifying update status.

Output:	Clear
04/17/2025 14:48:02	
04/17/2025 14:48:02 The installed Main firmware is newer than currently available on this update service 04/17/2025 14:48:02	
04/17/2025 14:48:02 Update Configuration: iDynamo5GenIII_EnablePushButton 04/17/2025 14:48:02 Retrieving update instructions from remote server 04/17/2025 14:48:03 Retrieving update instructions from remote serverSUCCESS 04/17/2025 14:48:03 ====================================	
	Exit

5.4 Exit

Press the **Exit** button to close the application.

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 <u>https://www.magtek.com/support</u>.

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)

MagTek Reader Management System (RMS) | Windows Application | Installation and Operation Manual

Appendix C Warranty and Software License

C.1 Limited Warranty

MagTek warrants that the products sold pursuant to this Agreement will perform in accordance with MagTek's published specifications. This warranty shall be provided only for a period of one year from the date of the shipment of the product from MagTek (the "Warranty Period"). This warranty shall apply only to the "Buyer" (the original purchaser, unless that entity resells the product as authorized by MagTek, in which event this warranty shall apply only to the first repurchaser).

During the Warranty Period, should this product fail to conform to MagTek's specifications, MagTek will, at its option, repair or replace this product at no additional charge except as set forth below. Repair parts and replacement products will be furnished on an exchange basis and will be either reconditioned or new. All replaced parts and products become the property of MagTek. This limited warranty does not include service to repair damage to the product resulting from accident, disaster, unreasonable use, misuse, abuse, negligence, or modification of the product not authorized by MagTek. MagTek reserves the right to examine the alleged defective goods to determine whether the warranty is applicable.

Without limiting the generality of the foregoing, MagTek specifically disclaims any liability or warranty for goods resold in other than MagTek's original packages, and for goods modified, altered, or treated without authorization by MagTek.

Service may be obtained by delivering the product during the warranty period to MagTek (1710 Apollo Court, Seal Beach, CA 90740). If this product is delivered by mail or by an equivalent shipping carrier, the customer agrees to insure the product or assume the risk of loss or damage in transit, to prepay shipping charges to the warranty service location, and to use the original shipping container or equivalent. MagTek will return the product, prepaid, via a three (3) day shipping service. A Return Material Authorization ("RMA") number must accompany all returns. Buyers may obtain an RMA number by contacting MagTek Support Services at support@magtek.com

EACH BUYER UNDERSTANDS THAT THIS MAGTEK PRODUCT IS OFFERED AS-IS. MAGTEK MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, AND MAGTEK DISCLAIMS ANY WARRANTY OF ANY OTHER KIND, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

IF THIS PRODUCT DOES NOT CONFORM TO MAGTEK'S SPECIFICATIONS, THE SOLE REMEDY SHALL BE REPAIR OR REPLACEMENT AS PROVIDED ABOVE. MAGTEK'S LIABILITY, IF ANY, SHALL IN NO EVENT EXCEED THE TOTAL AMOUNT PAID TO MAGTEK UNDER THIS AGREEMENT. IN NO EVENT WILL MAGTEK BE LIABLE TO THE BUYER FOR ANY DAMAGES, INCLUDING ANY LOST PROFITS, LOST SAVINGS, OR OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF, OR INABILITY TO USE, SUCH PRODUCT, EVEN IF MAGTEK HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, OR FOR ANY CLAIM BY ANY OTHER PARTY. Limitation On Liability

EXCEPT AS PROVIDED IN THE SECTIONS RELATING TO MAGTEK'S LIMITED WARRANTY, MAGTEK'S LIABILITY UNDER THIS AGREEMENT IS LIMITED TO THE CONTRACT PRICE OF THIS PRODUCT.

MAGTEK MAKES NO OTHER WARRANTIES WITH RESPECT TO THE PRODUCT, EXPRESSED OR IMPLIED, EXCEPT AS MAY BE STATED IN THIS AGREEMENT, AND MAGTEK DISCLAIMS ANY IMPLIED WARRANTY, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

MAGTEK SHALL NOT BE LIABLE FOR CONTINGENT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES TO PERSONS OR PROPERTY. MAGTEK FURTHER LIMITS ITS LIABILITY OF ANY KIND WITH RESPECT TO THE PRODUCT, INCLUDING NEGLIGENCE ON ITS PART, TO THE CONTRACT PRICE FOR THE GOODS.

MAGTEK'S SOLE LIABILITY AND BUYER'S EXCLUSIVE REMEDIES ARE STATED IN THIS SECTION AND IN THE SECTION RELATING TO MAGTEK'S LIMITED WARRANTY.

C.2 SOFTWARE LICENSE AGREEMENT

IMPORTANT: YOU SHOULD CAREFULLY READ ALL THE TERMS, CONDITIONS AND RESTRICTIONS OF THIS LICENSE AGREEMENT BEFORE INSTALLING THE SOFTWARE PACKAGE. YOUR INSTALLATION OF THE SOFTWARE PACKAGE PRESUMES YOUR ACCEPTANCE OF THE TERMS, CONDITIONS, AND RESTRICTIONS CONTAINED IN THIS AGREEMENT. IF YOU DO NOT AGREE WITH THESE TERMS, CONDITIONS, AND RESTRICTIONS, PROMPTLY RETURN THE SOFTWARE PACKAGE AND ASSOCIATED DOCUMENTATION TO THE ADDRESS IN THIS DOCUMENT, ATTENTION: CUSTOMER SUPPORT.

TERMS, CONDITIONS, AND RESTRICTIONS

MagTek, Incorporated (the "Licensor") owns and has the right to distribute the described software and documentation, collectively referred to as the "Software."

LICENSE: Licensor grants you (the "Licensee") the right to use the Software in conjunction with MagTek products. LICENSEE MAY NOT COPY, MODIFY, OR TRANSFER THE SOFTWARE IN WHOLE OR IN PART EXCEPT AS EXPRESSLY PROVIDED IN THIS AGREEMENT. Licensee may not decompile, disassemble, or in any other manner attempt to reverse engineer the Software. Licensee shall not tamper with, bypass, or alter any security features of the software or attempt to do so.

TRANSFER: Licensee may not transfer the Software or license to the Software to another party without the prior written authorization of the Licensor. If Licensee transfers the Software without authorization, all rights granted under this Agreement are automatically terminated.

COPYRIGHT: The Software is copyrighted. Licensee may not copy the Software except for archival purposes or to load for execution purposes. All other copies of the Software are in violation of this Agreement.

TERM: This Agreement is in effect as long as Licensee continues the use of the Software. The Licensor also reserves the right to terminate this Agreement if Licensee fails to comply with any of the terms, conditions, or restrictions contained herein. Should Licensor terminate this Agreement due to Licensee's failure to comply, Licensee agrees to return the Software to Licensor. Receipt of returned Software by the Licensor shall mark the termination.

LIMITED WARRANTY: Licensor warrants to the Licensee that the disk(s) or other media on which the Software is recorded are free from defects in material or workmanship under normal use.

THE SOFTWARE IS PROVIDED AS IS. LICENSOR MAKES NO OTHER WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Because of the diversity of conditions and hardware under which the Software may be used, Licensor does not warrant that the Software will meet Licensee specifications or that the operation of the Software will be uninterrupted or free of errors.

IN NO EVENT WILL LICENSOR BE LIABLE FOR ANY DAMAGES, INCLUDING ANY LOST PROFITS, LOST SAVINGS, OR OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE, OR INABILITY TO USE THE SOFTWARE. Licensee's sole remedy in the event of a defect in material or workmanship is expressly limited to replacement of the Software disk(s) if applicable.

GOVERNING LAW: If any provision of this Agreement is found to be unlawful, void, or unenforceable, that provision shall be removed from consideration under this Agreement and will not affect the enforceability of any of the remaining provisions. This Agreement shall be governed by the laws of the State of California and shall inure to the benefit of MagTek, Incorporated, its successors or assigns.

ACKNOWLEDGMENT: LICENSEE ACKNOWLEDGES THAT LICENSEE HAS READ THIS AGREEMENT, UNDERSTANDS ALL OF ITS TERMS, CONDITIONS, AND RESTRICTIONS, AND AGREES TO BE BOUND BY THEM. LICENSEE ALSO AGREES THAT THIS AGREEMENT SUPERSEDES ANY AND ALL VERBAL AND WRITTEN COMMUNICATIONS BETWEEN LICENSOR AND LICENSEE OR THEIR ASSIGNS RELATING TO THE SUBJECT MATTER OF THIS AGREEMENT.

QUESTIONS REGARDING THIS AGREEMENT SHOULD BE ADDRESSED IN WRITING TO MAGTEK, INCORPORATED, ATTENTION: CUSTOMER SUPPORT, AT THE ADDRESS LISTED IN THIS DOCUMENT, OR E-MAILED TO SUPPORT@MAGTEK.COM.

DEMO SOFTWARE / SAMPLE CODE: Unless otherwise stated, all demo software and sample code are to be used by Licensee for demonstration purposes only and MAY NOT BE incorporated into any production or live environment. The PIN Pad sample implementation is for software PIN Pad test purposes only and is not PCI compliant. To meet PCI compliance in production or live environments, a third-party PCI compliant component (hardware or software-based) must be used.