

oDynamo, DynaWave

MAGTEK EMV CONFIGURATION SOFTWARE INSTRUCTION Document Number D998200314-10

1	About This Document.....	2
2	How to connect to the Device	2
3	How to View EMV Tags.....	3
4	How to Verify EMV Tags	5
5	How to View EMV CA Public Keys.....	7
6	How to Verify EMV CA Public Keys	8

Table 1.1 - Revisions

Rev Number	Date	Notes
10	June 11, 2019	Initial Release

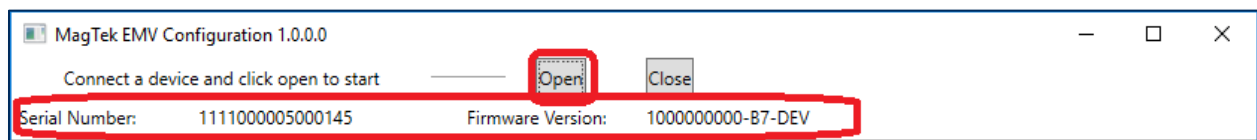
1 About This Document

This document describes how to use the MagTek EMV Configuration application to verify the EMV configuration on a MagTek oDynamo and DynaWave connected to a host PC via USB interface.

2 How to connect to the Device

This section will demonstrate how to use the MagTek EMV Configuration application on an oDynamo and DynaWave.

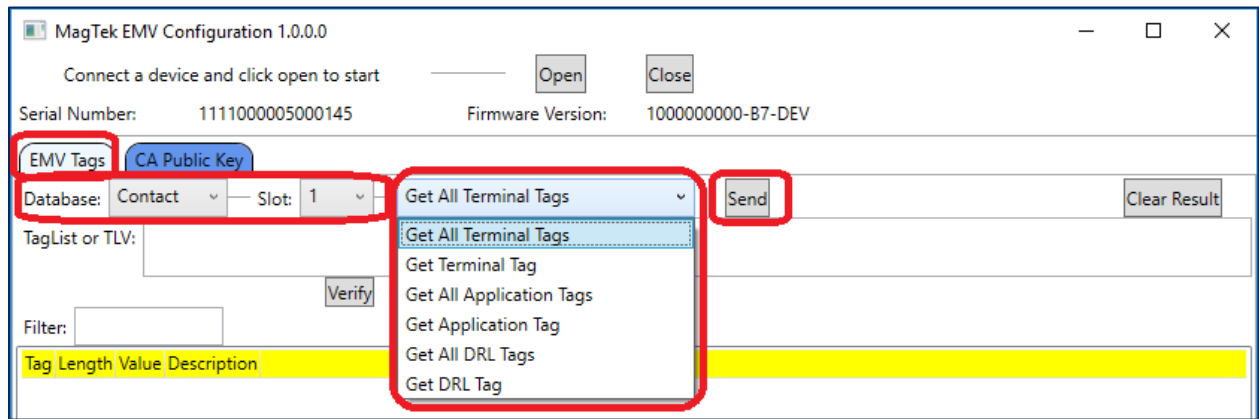
- 1) Connect the device to the host PC via USB cable.
- 2) Power cycle the device. Wait until the status LED is steady Green in color.
- 3) Press the **Open** button to connect to the device. The software will display the **Serial Number** and **Firmware Version**.



3 How to View EMV Tags

This section will demonstrate how to view EMV tags.

- 1) After the device is already open, press on the **EMV Tags** tab, select a **Database**, select a **Slot**, select a tag type from the list, and press the **Send** button.



- 2) A list is displayed in columns of Tag, Length (decimal), Value (hexadecimal), and Description.

Tag	Length	Value	Description
DFDF21	1	10	Number of Applications
5F2A	2	0840	Transaction Currency Code
5F36	1	02	Transaction Currency Exponent
5F57	1	00	Account Type
DFDF58	1	0C	Terminal Capability Purchase
DFDF5C	1	02	Terminal Capability CashBack
DFDF75	1	0C	Terminal Capability Inquiry
DFDF76	1	0C	Terminal Capability Transfer
DFDF6E	1	0C	Terminal Capabilities for Payment Transaction
DFDF7E	1	0C	Terminal Capability Cash Advance
DFDF7F	1	0C	Terminal Capability Cash Manual
9F15	2	3030	Merchant Category Code
9F16	7	30303030303030	Merchant Identifier

- 3) To view a subset from the result list, enter either a Tag, Value, or Description into the **Filter** input box. Below are examples of searching for the tag “dfdf16” and description “max size”.

Tag	Length	Value	Description
DFDF16	4	00000080	Issuer Script Max Size

Filter: max size

Tag	Length	Value	Description
DFDF16	4	00000080	Issuer Script Max Size

- 4) To view specific tags, select a tag type without “All” in its description, enter a Tag value or list of values without spaces, then press the **Send** button. Below is example result of getting tags DFDF02 and DFDF16.

EMV Tags CA Public Key

Database: Contact Slot: 1 Get Terminal Tag Send Clear Result

TagList or TLV: dfdf02dfdf16

Verify

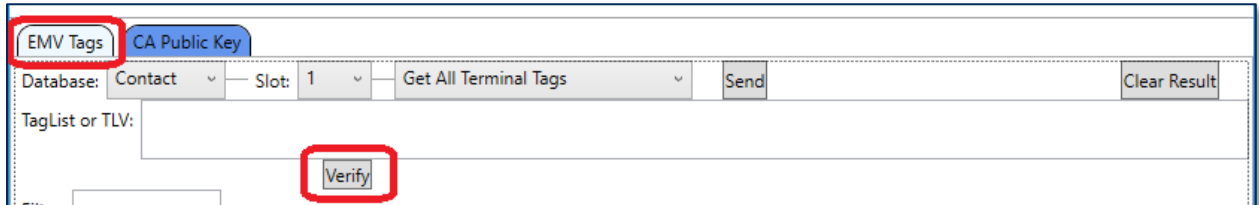
Filter:

Tag	Length	Value	Description
DFDF02	97	9ADDF2f	Authorization Reques
DFDF16	4	00000080	Issuer Script Max Size

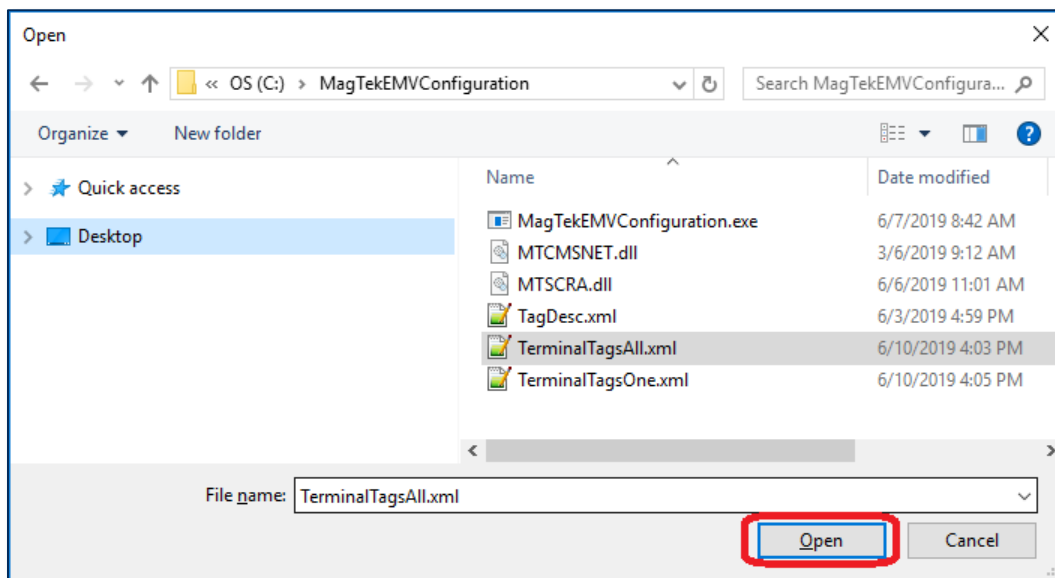
4 How to Verify EMV Tags

This section demonstrates how to verify the device against an EMVTag xml file. An EMVTag file contains an array of tags. Only tags listed in the EMVTag file are compared against the device.

- 1) Press the **EMV Tags** tab and press the **Verify** button.



- 2) Select the EMV tags file to be compared with the device, and press the **Open** button.



- 3) The status of the verification will be displayed. Each mismatched tag is shown as:
Error Item [Tag] -> [ValueFromFile]

Example: Successful verification.

Load Tags from C:\MagTekEMVConfiguration\TerminalTagsAll.xml
Compare Tags with C:\MagTekEMVConfiguration\TerminalTagsAll.xml Success!

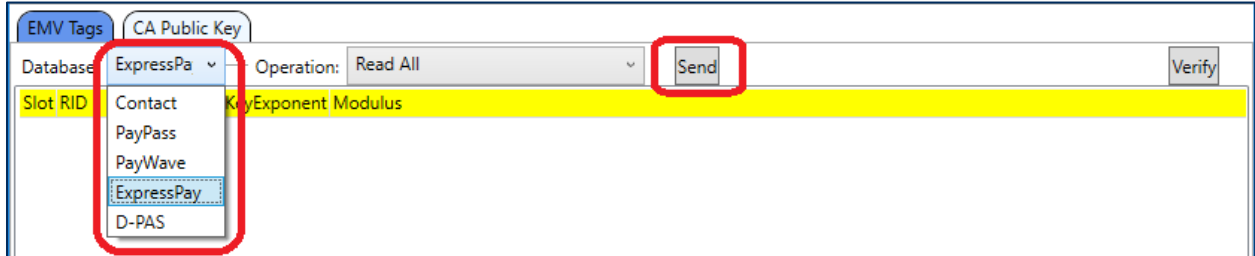
Example: Failed verification. Value in device is 00000080.

Load Tags from C:\MagTekEMVConfiguration\TerminalTagsAll.xml
Compare Tags with C:\MagTekEMVConfiguration\TerminalTagsAll.xml Failed!
Error Item : DFDF16 -> 00000040

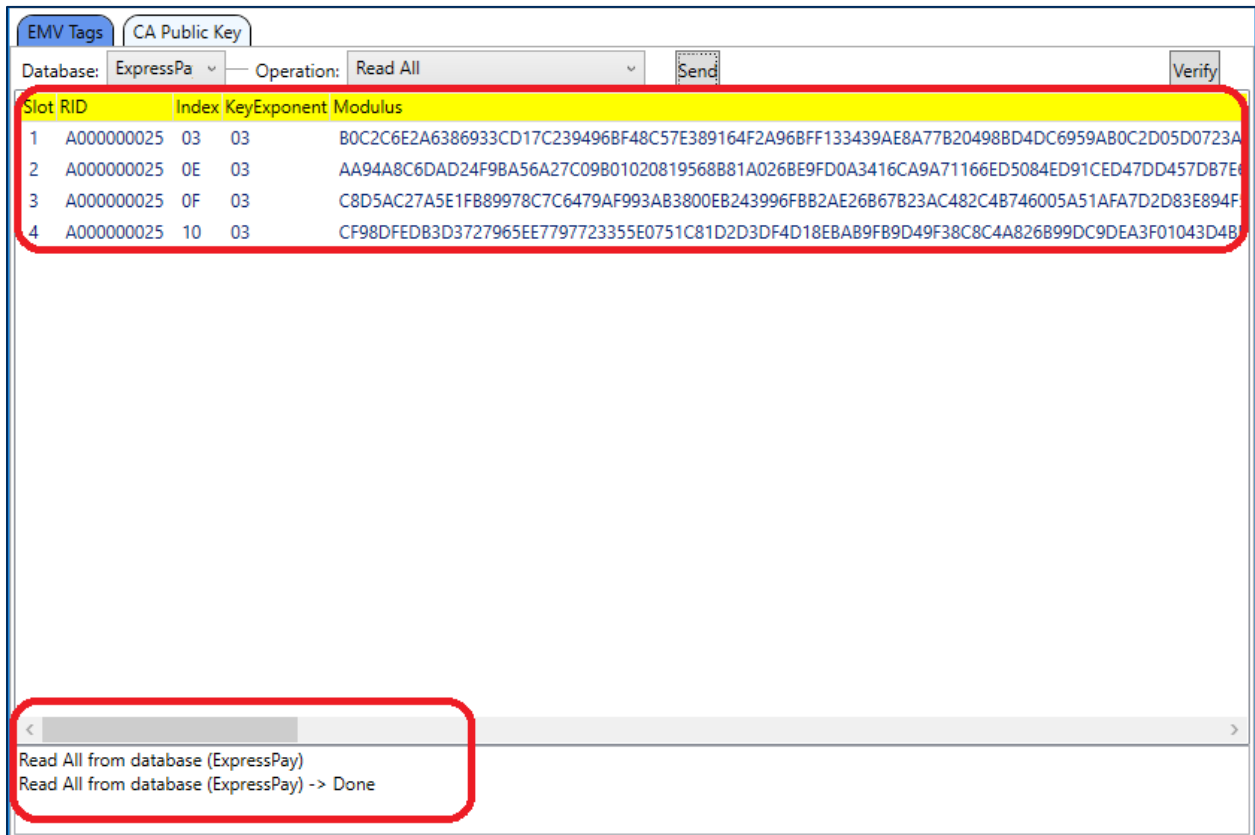
5 How to View EMV CA Public Keys

This section demonstrates how to view Certificate Authority Public Keys (CAPKs) on a device.

- 1) Press on the **CA Public Key** tab, select a **Database**, and press the **Send** button.



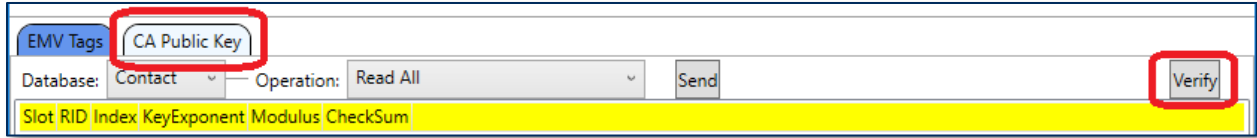
- 2) A list of CAPKs will be shown along with the status of the operation.



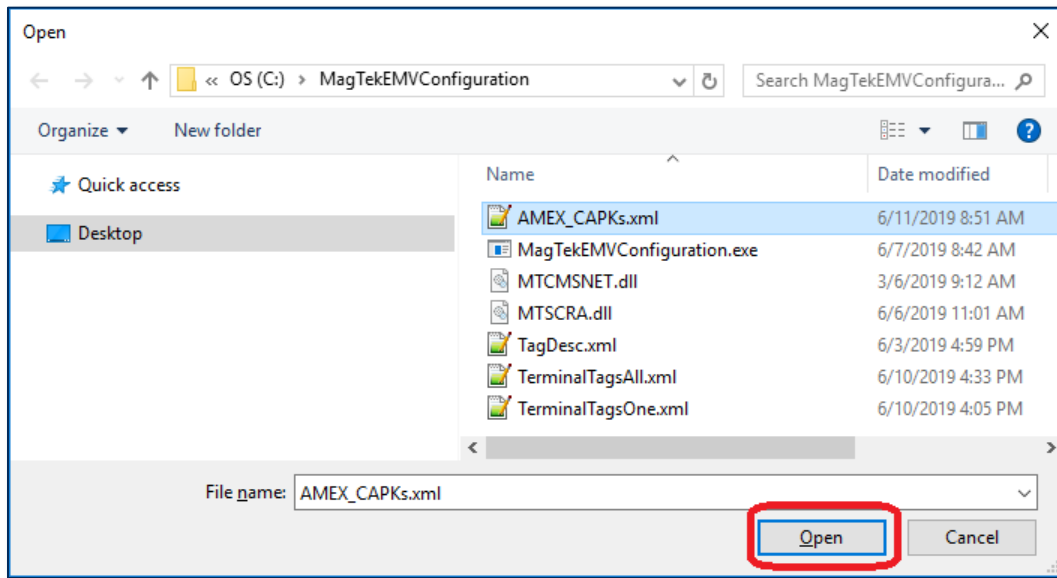
6 How to Verify EMV CA Public Keys

This section demonstrates how to verify the device against an EMVCAPK xml file. An EMVCAPK file contains an array of Certificate Authority Public Keys. Only CAPKs listed in the EMVCAPK file are compared against the device.

- 1) Press the **CA Public Key** tab and press the **Verify** button.

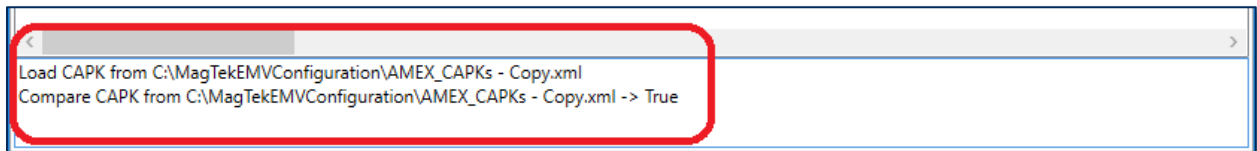


- 2) Select the EMVCAPK xml file to be compared with the device, and press the **Open** button.



- 3) The status of the verification will be displayed. Each mismatched RID is shown as:
Error Item [RID] -> [ValueFromFile]

Example: Successful verification.



Example: Failed verification.

