

JMTMacMS Applet for MagTek HID Card Reader Mac OSX PROGRAMMER'S GUIDE

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I. INTRODUCTION

JMTMacMS Applet transfers Card data from MagTek HID Card Reader device to a host program running on Mac OSX operating system. The applet is a signed/trusted applet.

JMTMacMS Applet supports device with PID 0x0011, 0x0013, 0x0002, and 0x0003.

II. SYSTEM REQUIREMENTS

The following are general requirements for running JMTMacMS Applet on the following supported platforms:

Mac OSX 10.5.6 Leopard

Java: JVM 1.6 and later.

Browser: Safari Version 3.2.1.

There are no specific memory or hardware requirements.

III. SOFTWARE REQUIREMENTS

JMTMacMS Applet was tested with Safari browser version 3.2.1 running on Mac OSX Leopard 10.5.6 platform with Java version 1.6.

JMTMacMS Applet requires library file *libMTMacHID.jnilib*.

If the file *libMTMacHID.jnilib* is not present in the system, the applet automatically downloads the file onto Java Library Extension directory which is “/Library/Java/Extensions”.

IV. JMTMACMS COMPONENT REQUIREMENTS

The directory on the host Web Server must contain the following four components and these files must be in the same directory.

1. Jar file for the JMTMacMS Applet

JMTMacMS.jar

2. Library file

libMTMacHID.jnilib

3. HTML Page

In order to use JMTMacMS Applet, the applet is embedded in a HTML page inside <applet> tag. For example:

```
<applet
    codebase="http://www.testserver.com/"
    code=" JMTMacMS.class"
    name="JMSR"
    archive=" JMTMacMS.jar" MAYSCRIPT
>
    <param name="cache_option" value="No">
    <param name="classloader_cache" value="true">

</applet>
```

The *codebase* parameter must be set to the URL of the web server where the applet is located. In the example, the codebase is set to <http://www.testserver.com> where the server location “testserver.com” contains all four components described in this section.

The *classloader_cache* parameter must be set to true to avoid Java IO exception when JMTMacMS applet is destroyed and restarted in the same browser's session, i.e.: when a browser is refreshed.

4. JavaScript File

The JavaScript file contains the JavaScript API functions.

V. JAVASCRIPT API FUNCTIONS

When a card is swiped through Card Reader device, the JMTMacMS Applet sends card data to the browser by calling several JavaScript functions. The following JavaScript functions will be called by the JMTMacMS Applet every time a card is swiped and new data is collected from HID reader device:

SetCardData(*value*)

JMTMacMS Applet calls this function to send the host card data.

SetCardDataMsk(*value*)

JMTMacMS Applet calls this function to send the host the masked card data.

SetPAN(*value*)

JMTMacMS Applet calls this function to send the host the PAN number.

SetFirstName(*value*)

JMTMacMS Applet calls this function to send the host First Name extracted from the track data.

SetLastName(*value*)

JMTMacMS Applet calls this function to send the host Last Name extracted from the track data.

SetMonth(*value*)

JMTMacMS Applet calls this function to send the host the month extracted from the track data.

SetYear(*value*)

JMTMacMS Applet calls this function to send the host the year extracted from the track data.

SetTrack1Len(*value*)

JMTMacMS Applet calls this function to send the host the length of track1 data.

SetTrack2Len(*value*)

JMTMacMS Applet calls this function to send the host the length of track2 data.

SetTrack3Len(*value*)

JMTMacMS Applet calls this function to send the host the length of track3 data.

SetTrack1MskLen(*value*)

JMTMacMS Applet calls this function to send the host the length of masked track1 data.

SetTrack2MskLen(*value*)

JMTMacMS Applet calls this function to send the host the length of masked track2 data.

SetTrack3MskLen(*value*)

JMTMacMS Applet calls this function to send the host the length of masked track3 data.

SetTrk1Encrypted(*value*)

JMTMacMS Applet calls this function to send the host track 1 encrypted data.

SetTrk2Encrypted(*value*)

JMTMacMS Applet calls this function to send the host track 2 encrypted data.

SetTrk3Encrypted(*value*)

JMTMacMS Applet calls this function to send the host track 3 encrypted data.

SetTrack1MskData(*value*)

JMTMacMS Applet calls this function to send the host track 1 data masked.

SetTrack2MskData(*value*)

JMTMacMS Applet calls this function to send the host track 2 data masked.

SetTrack3MskData(*value*)

JMTMacMS Applet calls this function to send the host track 3 data masked.

SetMPStatus(*value*)

JMTMacMS Applet calls this function to send the host status of MagnePrint data.

SetMPData(*value*)

JMTMacMS Applet calls this function to send the host MagnePrint data

SetMPLen(*value*)

JMTMacMS Applet calls this function to send the host length of MagnePrint data.

SetDeviceSN(*value*)

JMTMacMS Applet calls this function to send the host serial number of the HID reader.

SetReaderID(*value*)

JMTMacMS Applet calls this function to send the host ID of the HID reader.

SetEncodeType(*value*)

JMTMacMS Applet calls this function to send the host type of encoding.

SetDUKPTKSN(*value*)

JMTMacMS Applet calls this function to send the host value of DUKPTKSN.

SetSessionID (*value*)

JMTMacMS Applet calls this function to send the host ID of the session.

SetCRStatus(*value*)

JMTMacMS Applet calls this function to send the host status of HID reader. If reader is connected, the status is “*Reader Connected*”, otherwise, the status is “*Reader Disconnected*”.

SetResults(*value*)

JMTMacMS Applet provides function SendStrCmd() to send a command value to the HID reader. JMTMacMS Applet uses SetResults() to send to host the results JMTMacMS receives from the HID reader.

SendStrCmd()

This function is JMTMacMS Applet function. It takes a string parameter as command value for reader to process.

SetAllCardData(*value*)

When this function is called by JMTMacMS Applet, it receives all Card Data in one single string. Individual data is separated by the character “|” .

Card data are arranged in the following order:

1. PAN
2. First Name
3. Last Name
4. Month
5. Year
6. Track 1 Length
7. Track 2 Length
8. Track 3 Length
9. Track 1 Masked Length
10. Track 2 Masked Length
11. Track 3 Masked Length
12. Track 1 Data
13. Track 2 Data
14. Track 3 Data
15. Track 1 Masked Data
16. Track 2 Masked Data
17. Track 3 Masked Data
18. MagnePrint Status
19. MagnePrint Data
20. MagnePrint Length
21. Device Serial Number

- 22. Card Reader ID
- 23. Encode Type
- 24. DUKPTKSN data
- 25. Session ID

SetCardReadingError()

If the card is swiped too fast or too slow or the card is damaged, card reading will fail. JMTMacMS Applet calls this function to report to host card reading problem.

ReportJavaPluginVersion()

Before Java applet loading completes, the version of Java Virtual Machine is checked to ensure version 1.5 or later is installed.

DeviceReady()

This function is called when device is ready for card swiping. This function can be used as an event when device is ready.

GetTrack1DecodeStatus()

Host program uses this function to get value of decode status for Track 1.

GetTrack2DecodeStatus()

Host program uses this function to get status of decode status for Track 2.

GetTrack3DecodeStatus()

Host program uses this function to get status of decode status for Track 3.