MagTek MSR JPOS Installation	TB000063	REV. C

Executive Summary

MagTek MSR JPOS driver for customers with a JPOS platform.

Tools Needed

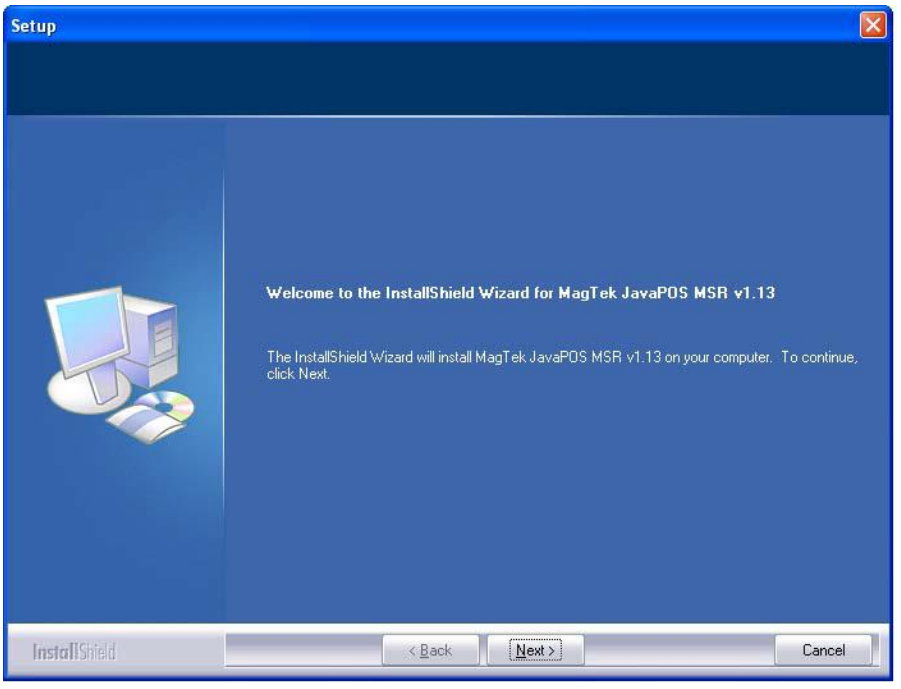
- Windows 7 or above computer
- MagTek MSR in HID Mode with PID 002 or 011 (PID 002 or 011 are defaults PID's for HID Mode).

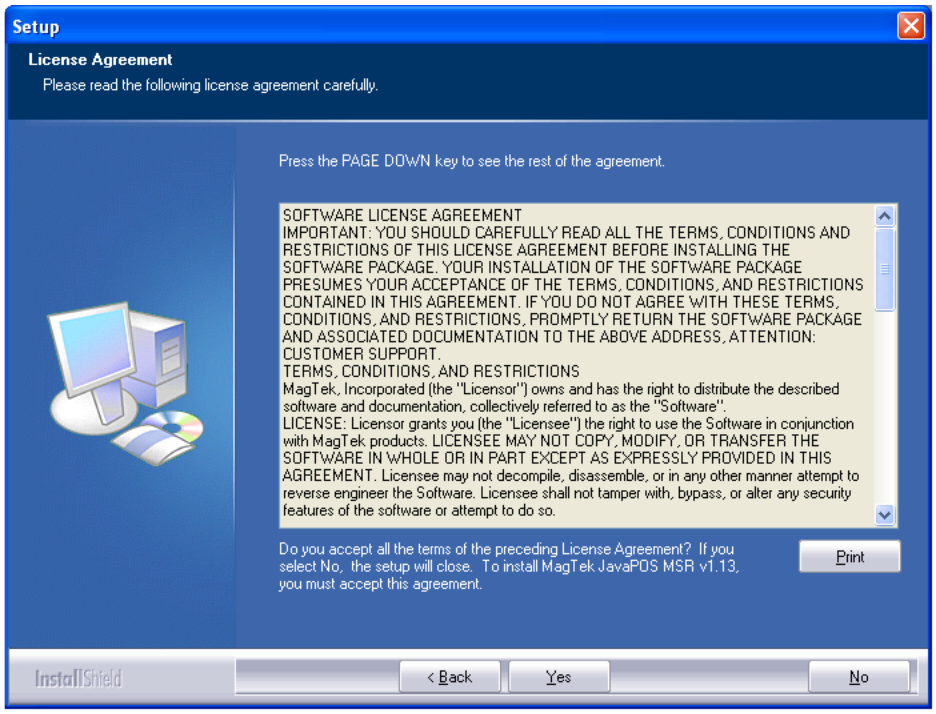
Use MagTek USB MSR application to change to HID if needed, and to verify PID's.
https://elotouch.sharepoint.com/:u:/s/KnoxvilleTechnicalServices/EXhO21kMxAZLiy0afCECxvoBak9U3_4GcSnPdrUdpfV1Tg?e=SdFkJ0

- MagTek JPOS Driver Package for USB HID Swipe Readers

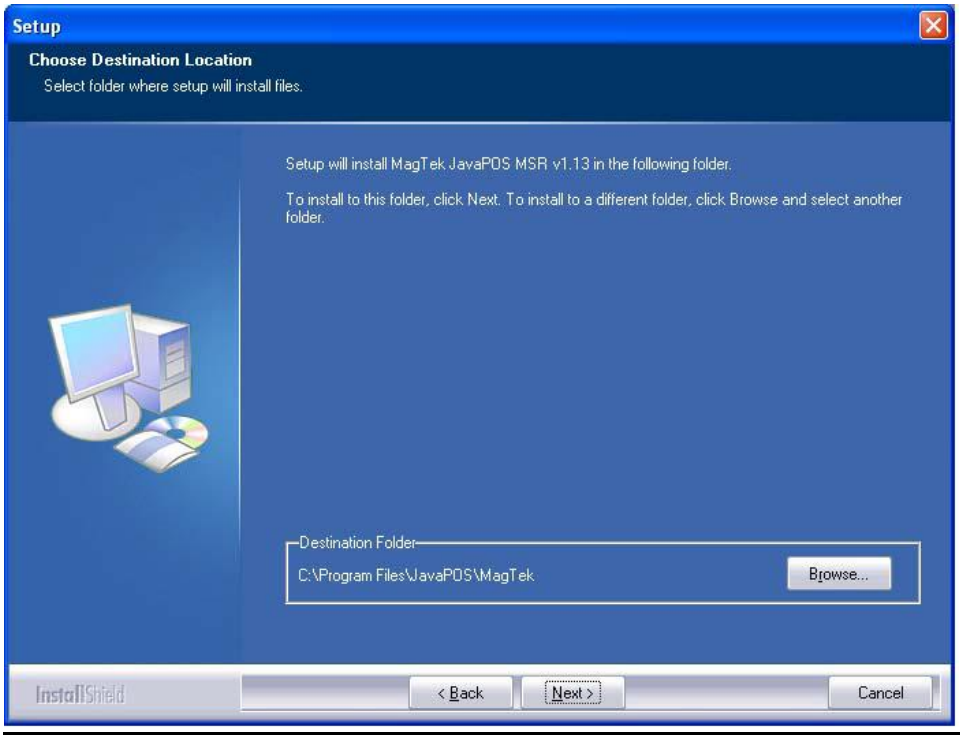
Installation

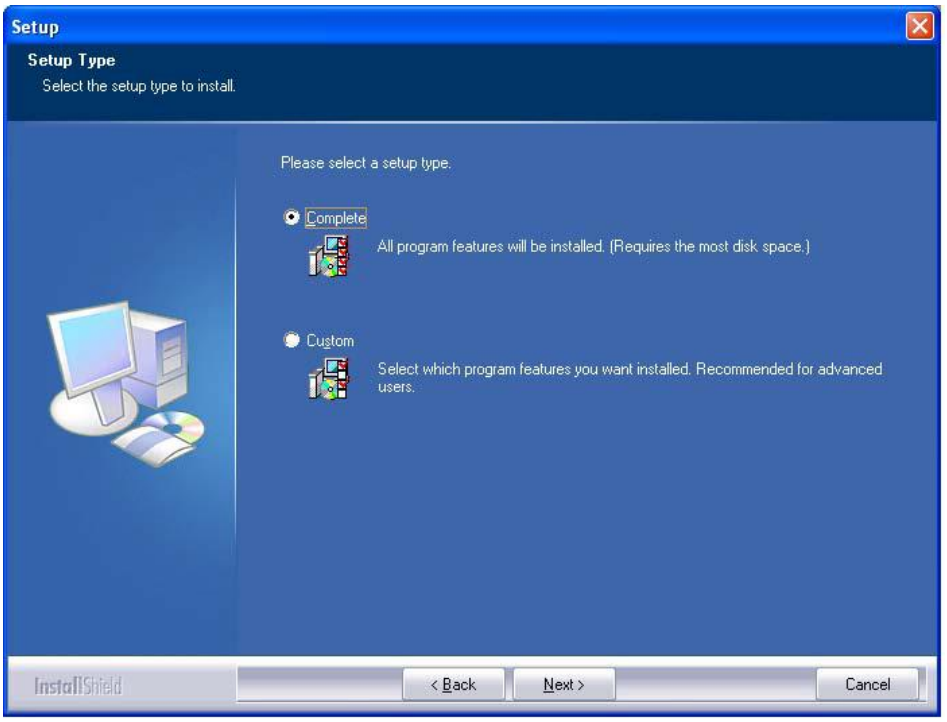
1. Download the JPOS Driver Package for USB HID Swipe Reader: https://elotouch.sharepoint.com/:u:/s/KnoxvilleTechnicalServices/EYAxPGCj0mlAoCNpZ-V1oYwB5mKGodUO4aQy_oLw2Q4KXA?e=Yaf64B
2. Double click on the file to launch the installation and click Next.
    a. Continue with installation per screen shots below:



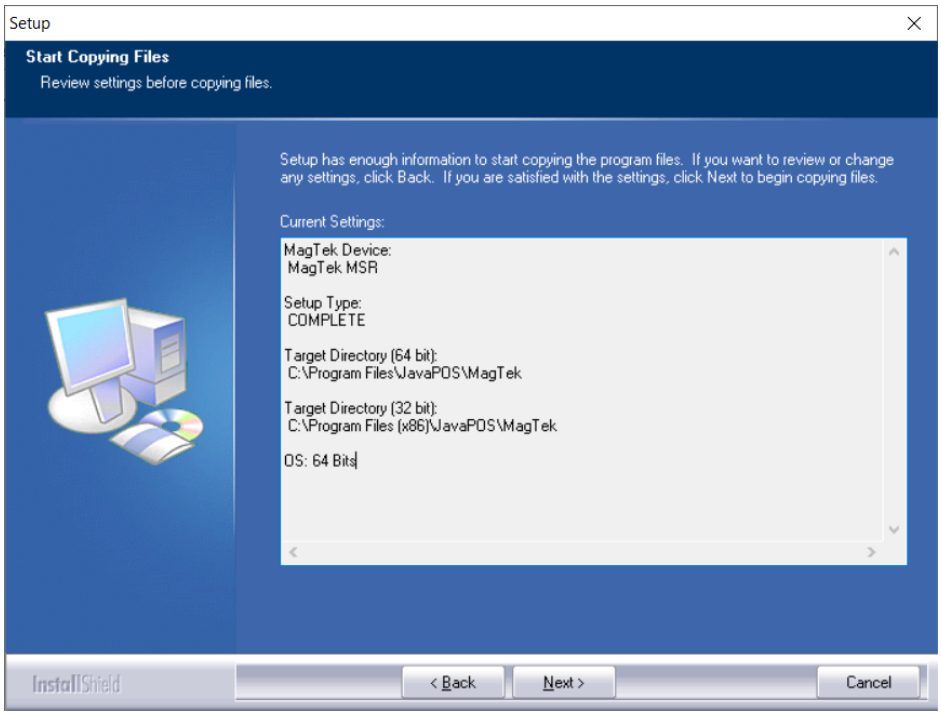


b. The default target folder:
   - For x86 platforms: C:\Program Files\OPOS\MagTek
   - For x64 platforms: C:\Program Files (x86)\OPOS\MagTek

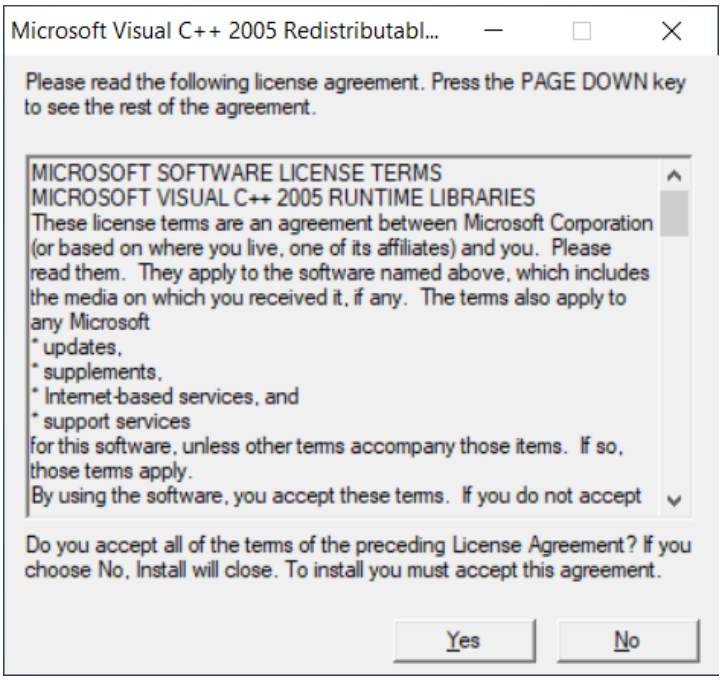




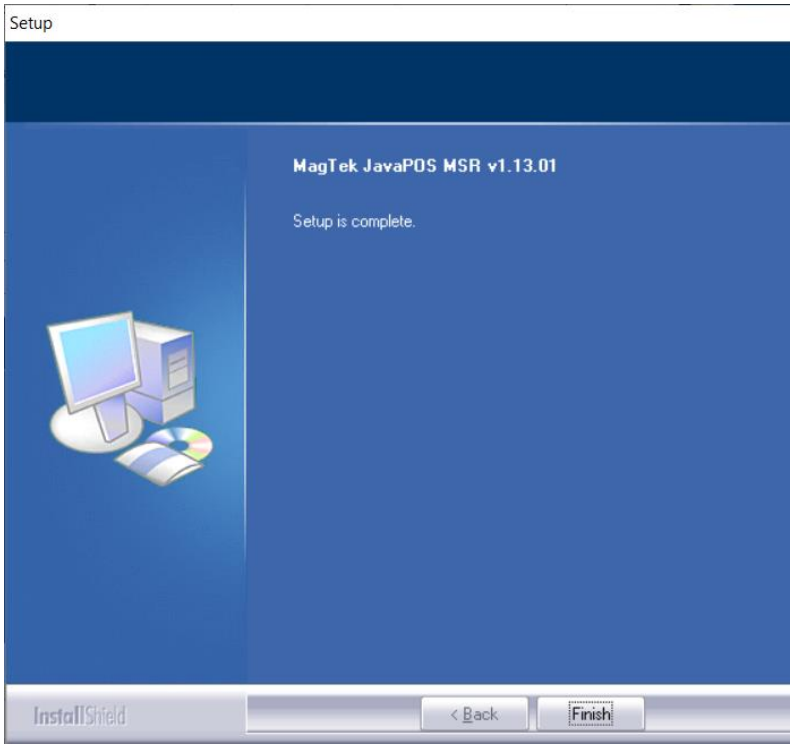
c. The setup type for the installation of the MagTek OPOS MSR is '***Complete***' or '***Custom***'. The '***Complete***' setup type will proceed to install all components for the MagTek OPOS MSR.



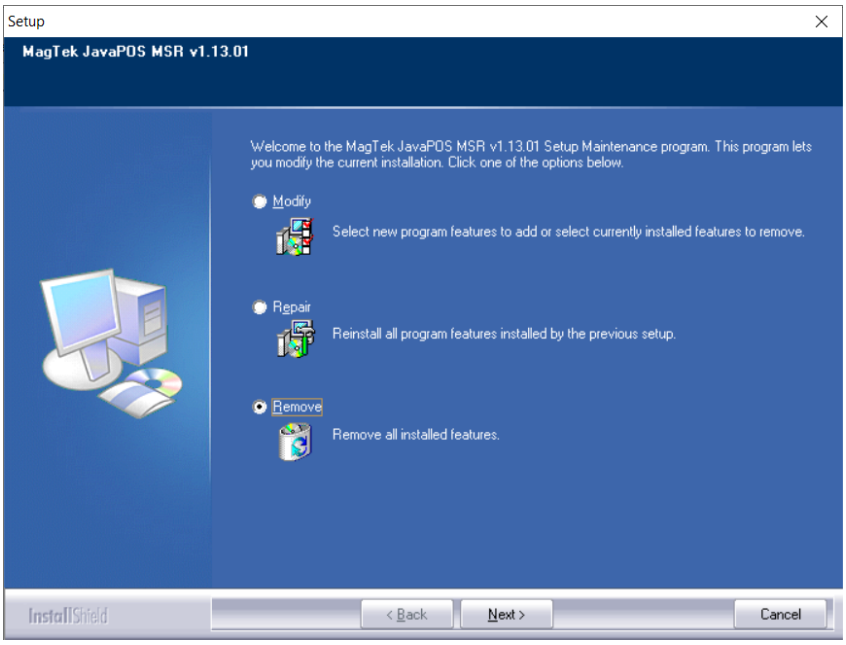
d. If prompted, click on Yes to install Microsoft Visual C++ Runtime Libraries.



e. Click Finish to complete the installation.



f. Click on driver again for modifications, repair, or removal of OPOS driver:



g. Continue to next page for testing OPOS installation.

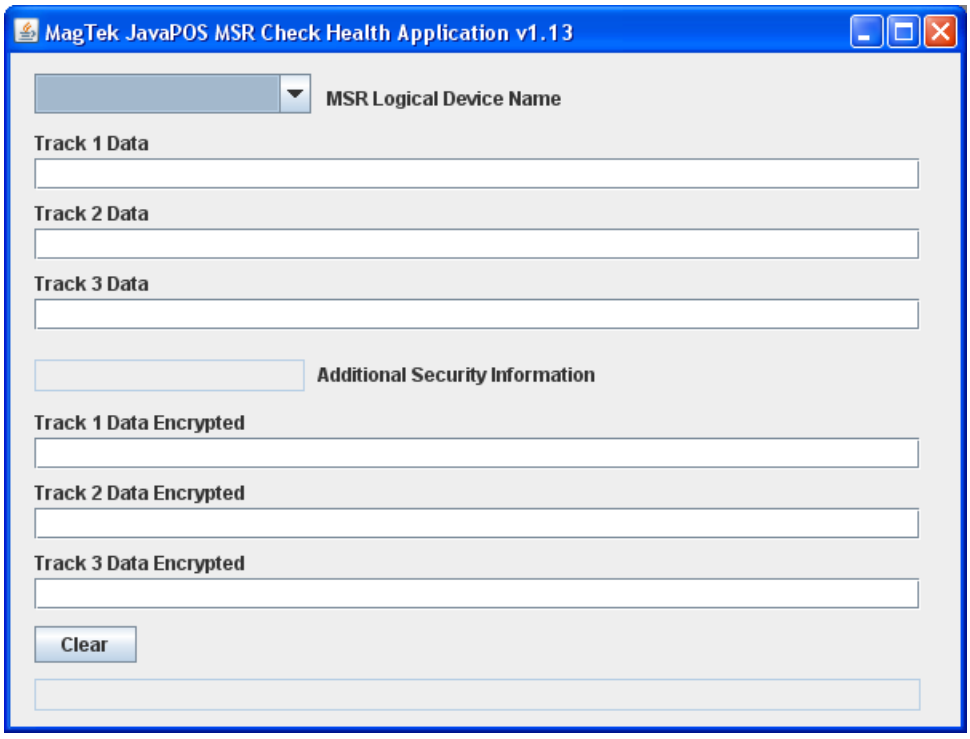
Testing OPOS Installation

The MagTek UPOS 1.13 JavaPOS MSR Utility application performs JavaPOS Check Health testing of the MagTek MSR JavaPOS device based on the pre-registered Logical Device Names (LDN) via the jpos.xml file.

Within the MagTek JavaPOS MSR target installation 'service' sub-folder, double click on the 'MSRUtility.bat' file to launch the MagTek JavaPOS MSR Utility Check Health application:
C:\Program Files (x86)\JavaPOS\MagTek\service

Below is the MagTek JavaPOS MSR Utility Check Health application screen. The MSR Logical Device Name (LDN) within the combo box is to first be selected for the USB connected MagTek MSR device and tested by populating the fields below of the most recent swiped card data. The Clear button will clear all display data fields.

The pre-registered MagTek MSR Logical Device Names via the jpos.xml registration files are the
1) MagTekMSR (MagTek non-encrypted MSR reader)
2) MagTekMSR_Encrypted (MagTek encrypted MSR reader).

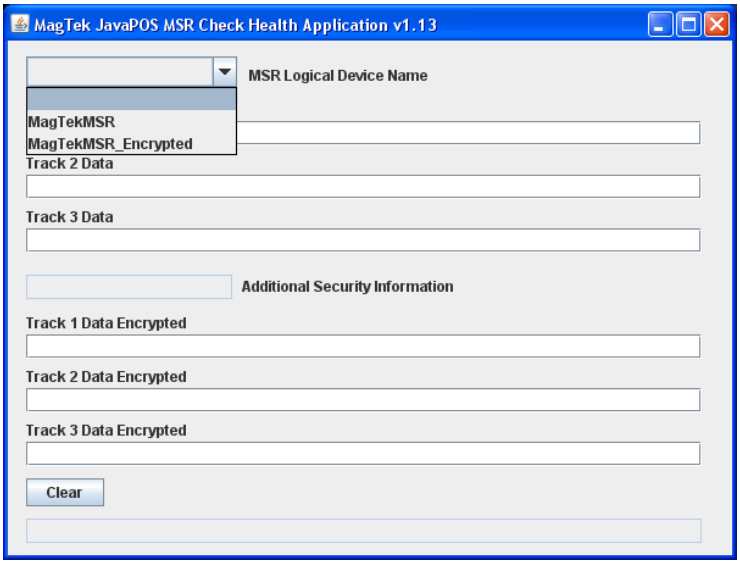


The MagTek MSR Logical Device Names are displayed within the combo box:

1) ‘MagTekMSR’ (representing the non-encrypted based reader)
2) ‘MagTekMSR_Encrypted’ (representing the encrypted based reader)

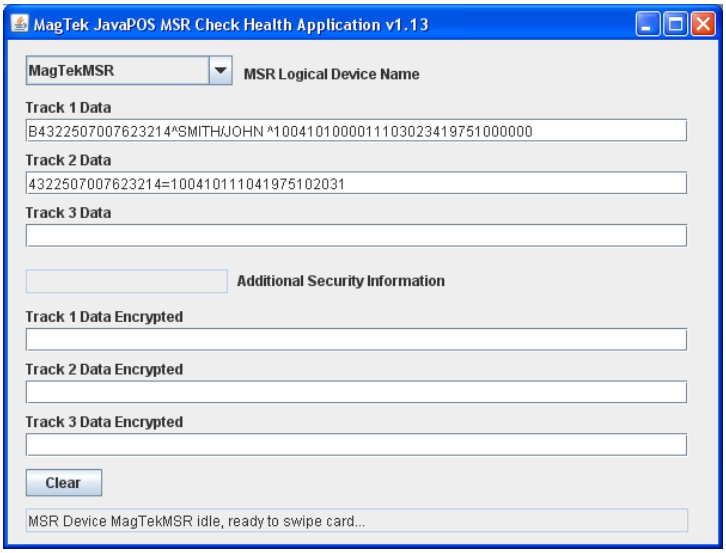
To be tested via the populated fields:

Track 1 Data, Track 2 Data and Track 3 Data for both the MagTek Non-encrypted and encrypted MSR reader; and the Additional Security Information, Track 1 Data Encrypted, Track 2 Data Encrypted and Track 3 Data Encrypted for the MagTek encrypted MSR reader.



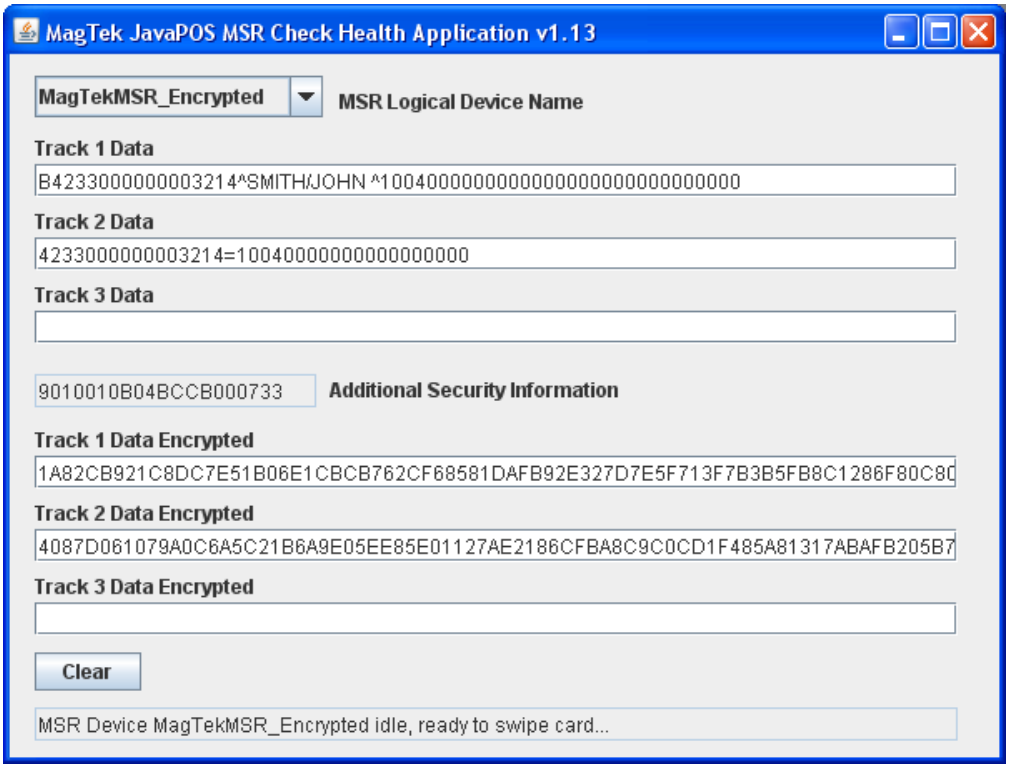
Example of using the ‘MagTekMSR’ Logical Device Name with the USB connected MagTek non-encrypted based reader.

The appropriate non-encrypted data fields are populated with clear text information.



Example of using the 'MagTekMSR_Encrypted' Logical Device Name with the USB connected MagTek encrypted based reader.

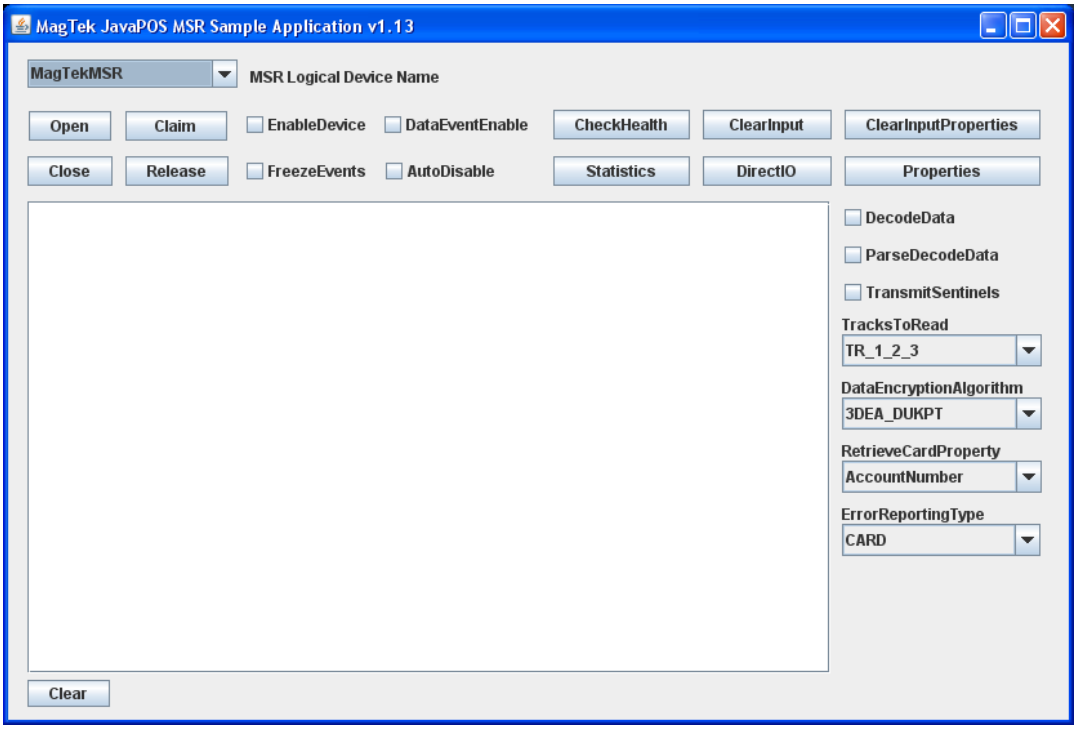
The appropriate encrypted data fields are populated with masked text data and encrypted data along with the Additional Security Information for encrypted data decoding.



MagTek Sample Application

The MagTek UPOS 1.13 JavaPOS MSR Sample application demonstrates the UPOS 1.13 JavaPOS MSR Properties, Methods and Events for the MagTek JavaPOS 1.13 MSR non-encrypted and encrypted readers.

Within the MagTek JavaPOS MSR target installation 'service' sub-folder, double click on the 'Sample' folder and then double click on the 'MSRSample.bat' file to launch the MagTek JavaPOS MSR Sample application: **C:\Program Files (x86)\JavaPOS\MagTek\service\Sample**



The MagTek JavaPOS MSR Sample application screen. The MSR Logical Device Name (LDN) within the combo box is to first be selected for the USB connected MagTek MSR device for JavaPOS Properties, Methods and Events operations.

Parameter Descriptions

MSR Logical Device Name
[Combo box]
This combo box contains the JavaPOS registered Logical Device Names (LDN) to be selected the for MagTek JavaPOS MSR device instantiation via the jpos.xml file located within target installation 'service' sub-folder.

JavaPOS Open method
[Button]
This button will pass the selected LDN as the string parameter of the JavaPOS Open method, which will instantiate the associated JavaPOS device object for processing of all JavaPOS MSR Properties, Methods and Events.

JavaPOS Claim method
[Button]
This button will claim the MagTek JavaPOS MSR device object for exclusive use.
(Required for the JavaPOS MSR device object).

JavaPOS DeviceEnabled property
[Check box]
This check box enables (checked) or disables (unchecked) the MSR device object.
(Required for most JavaPOS operations).

JavaPOS DataEventEnabled property
[Check box]
This check box enables (checked) or disables (unchecked) Data Events to be sent from the MagTek JavaPOS MSR Service Object for any queued MSR read data. Per the UPOS 1.13 JavaPOS Standards specification, this DataEventEnabled property is set to false within the MagTek JavaPOS MSR Service Object after each JavaPOS MSR Data Event is fired to the JavaPOS application. The JavaPOS application is required to re-enable the DataEventEnabled property to receive the MSR read data from the most recent or queued card swipe.

JavaPOS CheckHealth method
[Button]
This button will invoke the CheckHealth (Internal) method and display the CheckHealthText Property value within the output window.

JavaPOS ClearInput method
[Button]
This button will clear any queued MSR read data within the MagTek JavaPOS MSR Service Object.

JavaPOS ClearInputProperties method +
[Button]
This button will clear all properties populated via the most recent MSR read data.

Properties
[Button]
This button will invoke and display all the JavaPOS common and device specific MSR properties within the output window. All properties associated to MSR read data will contain data from the most recently swiped card.

JavaPOS DecodeData property
[Check box]
This check box enables (checked) or disables (unchecked) the MSR specific DecodeData property.

JavaPOS ParseDecodeData property
[Check box]
This check box enables (checked) or disables (unchecked) the MSR specific ParseDecodeData property.

JavaPOS TransmitSentinels property
[Check box]
This check box enables (checked) or disables (unchecked) the MSR specific TransmitSentinels property.

TracksToRead
[Combo box]
This combo box contains the JavaPOS MSR options for the Tracks To Read setting and reflected within the populated JavaPOS MSR Properties.

DataEncryptionAlgorithm
[Combo box]
This combo box contains the MagTek JavaPOS MSR supported Data Encryption Algorithms.
Note: This Property setting only applies to the MagTek encrypted based MSR devices.

RetrieveCardProperty
[Combo box]
This combo box contains the MSR specific Properties to be retrieved corresponding to the parsing of the recently swiped card.
Properties that do not contain data did not exist in the original track number data.

ErrorReportingType
[Combo box]
This combo box contains the MSR specific Property for reporting the error type, either Card or Track based error reporting.

JavaPOS DirectIO method
[Button]
This button invokes the DirectIO Method example.

JavaPOS Statistics method
[Button]
This button invokes the supported RetrieveStatistics Method returning the JavaPOS Statistics XML based string and is displayed within a launched dialog box.

JavaPOS AutoDisable property
[Check box]
This check box enables (checked) or disables (unchecked) the Auto Disable Property. This Property is used for added control with receiving event driven input from the MSR device object.

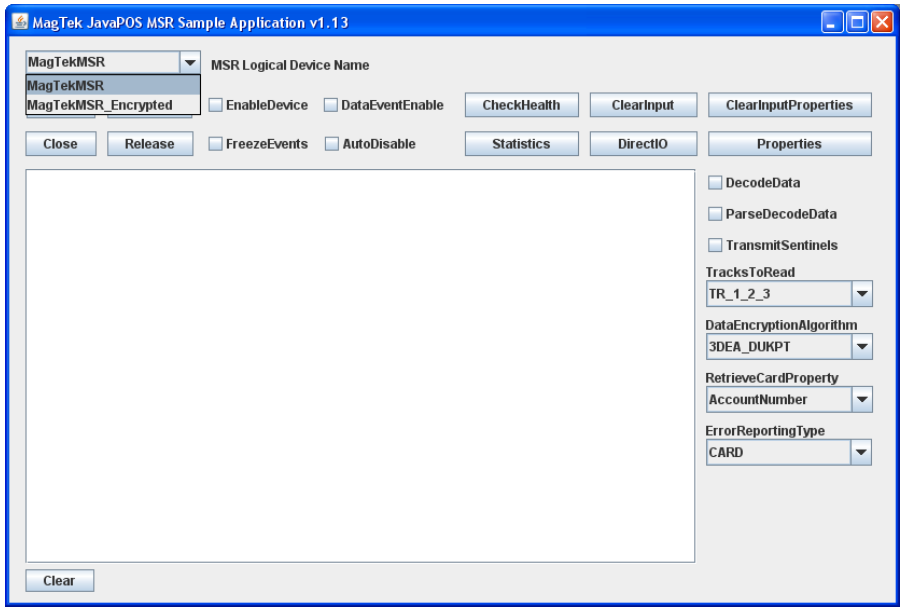
JavaPOS FreezeEvents property
[Check box]
This check box enables (checked) or disables (unchecked) the Freeze Events Property. This Property is used to control when events are to be received. This applies to all Events associated with the JavaPOS MSR device object.

JavaPOS Release (ReleaseDevice) method
[Button]
This button will release the MagTek JavaPOS MSR device object from exclusive use.

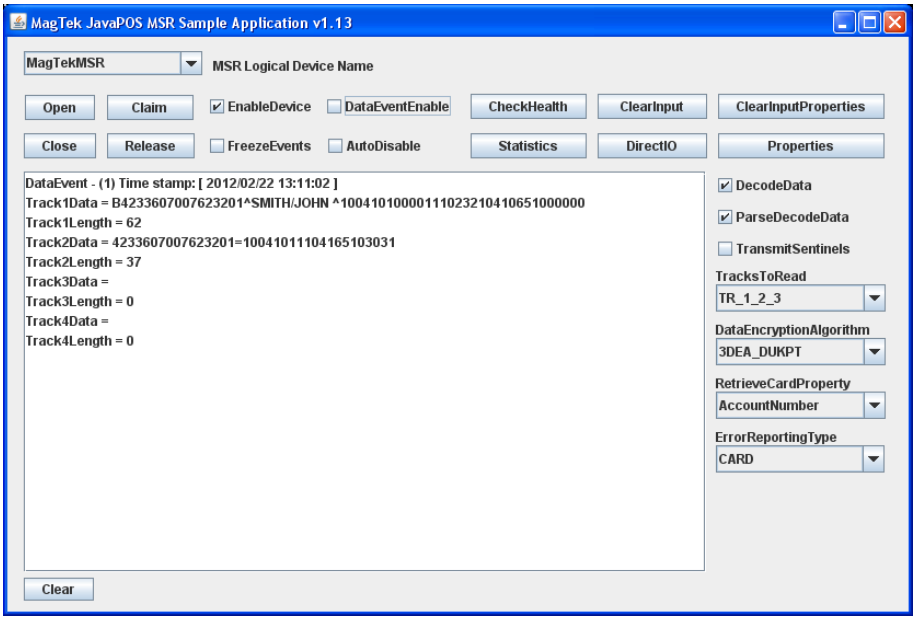
JavaPOS Close method
[Button]
This button will close the MagTek JavaPOS MSR device object instantiation.

Examples

1. ***Example one***: Example of the Logical Device Name combo box containing the default JavaPOS MSR registered Logical Device Names (LDN) via the jpos.xml registration file. Additional Logical Device Names may be added or removed via the jposEntryEditor or manual editing of the jpos.xml file.



2. ***Example two:*** Example of a received and displayed JavaPOS MSR Data Event of a swiped card. The 'MagTekMSR' Logical Device Name used as the JavaPOS MSR instantiated device object representing the MagTek non-encrypted MSR device.



3. ***Example three:*** Example of clicking the Properties button displaying the JavaPOS MSR populated Properties of the most recently swiped card.