

# OPOS Demo AP

## USER'S GUIDE

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## 1. Introduction

The **OPOS MSR Test** is an application that can be applied to test the OPOS compliance of the MSR. It is fully compliant with **UPOS 1.12** standard.

For further information on OPOS, please refer to "UnifiedPOS Retail Peripheral Architecture Version 1.12" specification.

## 2. Application(OPOS MSR Test) Installation

The program can be easily installed on any supported Windows operating system:

- Execute the installer file, for instance, "MSROPX10.exe"
- Follow the on-screen instructions to complete the installation
- To run the program click **Start > Programs > MSR Test > MSR Test**

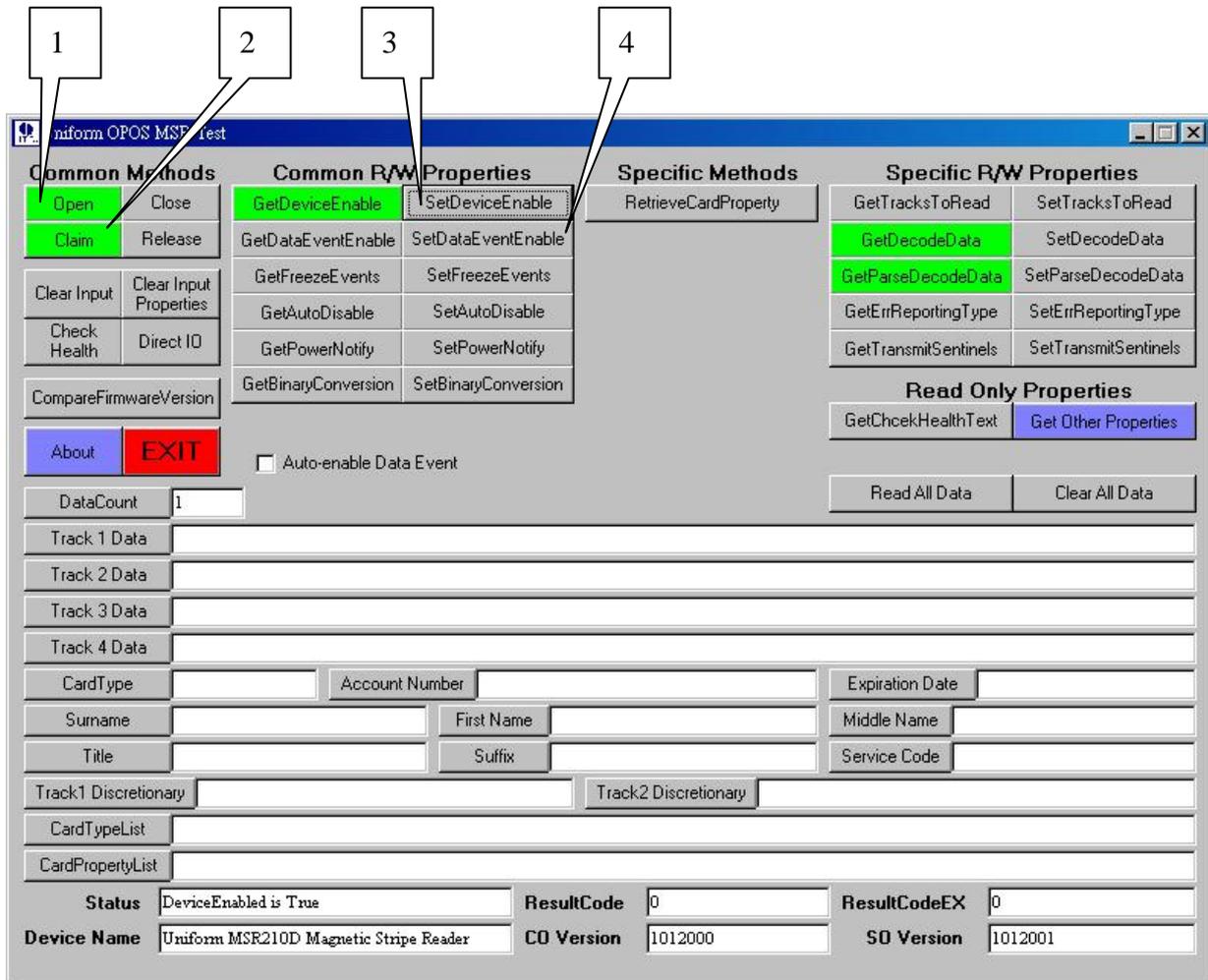
### **Notice:**

In addition to the Demo application, the installation will install the OPOS Common Control Objects version 1.12 to user's system so additional control objects are not needed if only for demo usage.

### 3. How to use this program

This section guides you how to successfully read the magnetic stripe card data.

#### 3.1 Operation Procedures



1. Click the **Open** button first, a dialog box as below will pop-up. Please enter an appropriate \*device name, and then click **OK**.



\* The names of OPOS devices set in Windows Registry

2. After the device is opened, click on **Claim** button to gain exclusive access to the device.  
(Note: Then the device is disabled for other application)
3. Click the **SetDeviceEnable** button to make the device operational.  
Now the application is ready to receive input from the device, you can swipe a credit card to read card data.
4. After reading card, click **SetDataEventEnable** to get the track data.

Click this button to get other read-only properties as shown in section 3.3

The screenshot shows the 'Uniform OPOS MSR Test' application window. It is divided into several sections:

- Common Methods:** Open, Close, Claim, Release, Clear Input, Clear Input Properties, Check Health, Direct IO, CompareFirmwareVersion, About, EXIT.
- Common R/W Properties:** GetDeviceEnable, SetDeviceEnable, GetDataEventEnable, SetDataEventEnable, GetFreezeEvents, SetFreezeEvents, GetAutoDisable, SetAutoDisable, GetPowerNotify, SetPowerNotify, GetBinaryConversion, SetBinaryConversion.
- Specific Methods:** RetrieveCardProperty.
- Specific R/W Properties:** GetTracksToRead, SetTracksToRead, GetDecodeData, SetDecodeData, GetParseDecodeData, SetParseDecodeData, GetErrReportingType, SetErrReportingType, GetTransmitSentinels, SetTransmitSentinels.
- Read Only Properties:** GetCheckHealthText, Get Other Properties.

Below the buttons is a 'DataCount' field with the value '0' and an 'Auto-enable Data Event' checkbox. A table displays card data:

Track 1 Data	B4545234523355999*CHEN/COLS WWW.BDD ^040510713082 00567 000				
Track 2 Data	4545234523355999=04051071308256700000				
Track 3 Data					
Track 4 Data					
CardType	BANK	Account Number	4545234523355999	Expiration Date	0405
Surname	CHEN	First Name	COLS	Middle Name	WWW
Title	BDD	Suffix		Service Code	107
Track1 Discretionary	13082 00567 000	Track2 Discretionary	1308256700000		
CardTypeList	AccountNumber,ExpirationDate,FirstName,MiddleInitial,ServiceCode,Suffix,Surname,Title				
CardPropertyList	4545234523355999,0405,COLS,WWW,107,,CHEN,BDD				
Status	MSR Data Event Status = B00002546	ResultCode	0	ResultCodeEX	0
Device Name	Uniform MSR210D Magnetic Stripe Reader	CO Version	1012000	SO Version	1012001

**Magnetic Stripe Card Data**

Status field: Display the Event return code

**Please Note:**

Option "Auto-enable Data Event" causes the demo AP to always re-enable DataEventEnable.

**As to other Methods and Properties, please refer to “UnifiedPOS Specification v1.12” for details.**

## 3.2 About the OPOS control

### How an application uses an OPOS control

Basically, the application follows this general sequence:

- Call **Open** method
- Call **ClaimDevice** method
- Set **DeviceEnabled** property to TRUE
- Use the device
- Set **DeviceEnabled** property to FALSE to disable the device
- Call **ReleaseDevice** method to release exclusive access to the device
- Call **Close** method to release the Service Object from the Control Object

### 3.3 Read Only Properties

**OPOS MSR Read Only Properties**
✕

**Common Read Only Properties**

CapCompareFirmwareVersion	<input type="text" value="True"/>	Claimed	<input type="text" value="True"/>
CapPowerReporting	<input type="text" value="OPOS_PR_NONE"/>	OpenResult	<input type="text" value="Success"/>
CapStatisticsReporting	<input type="text" value="False"/>	PowerState	<input type="text" value="OPOS_PS_UNKNOWN"/>
CapUpdateFirmware	<input type="text" value="False"/>	State	<input type="text" value="OPOS_S_IDLE"/>
CapUpdateStatistics	<input type="text" value="False"/>		
ControlObjectDescription	<input type="text" value="OPOS MSR Control 1.12.000 [Public, by CRM/RCS-Dayton]"/>		
ServiceObjectDescription	<input type="text" value="MSR210D OPOS Service Object Ver.2100PS1Y, (C) 2009 Uniform"/>		
DeviceDescription	<input type="text" value="Uniform MSR210D, USB HID Keyboard"/>		

**MSR Specific Read Only Properties**

CapCardAuthentication	<input type="text" value="None"/>	AdditionalSecurityInformation	<input type="text" value="None"/>
CapDataEncryption	<input type="text" value="MSR_DE_NONE"/>	CardAuthenticationData	<input type="text" value="None"/>
CapDeviceAuthentication	<input type="text" value="MSR_DA_NOT_SUPPORTED"/>	CardAuthenticationDataLength	<input type="text" value="0"/>
CapISO	<input type="text" value="True"/>		
CapISOOne	<input type="text" value="True"/>		
CapISTwo	<input type="text" value="False"/>		
CapTrackDataMasking	<input type="text" value="False"/>		
CapTransmitSentinels	<input type="text" value="True"/>		
CapWritableTracks	<input type="text" value="MSR_TR_NONE"/>		

OK

### 3.4 EXIT

To quit the program, perform the following steps.

