

MCH200 OPOS MSR Tester Installation and Operation Guide

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1. Overview

The OPOS Test is an application that can be applied to test the OPOS compliance of the MSR. It is fully compliant with OPOS Release 1.12. For further information on OPOS, please refer to “OLE for Retail POS Application Programmer’s Guide”.

2. Driver (MCH200 Service Object) Installation

The MSR200 Service Object install shield locates in the directory named “MSR200 OPOS SO”.

Procedure:

- Execute the MCH200 OPOS SO.msi.
- Follow the installation procedure with the default settings.

3. Application (OPOS Test) Installation

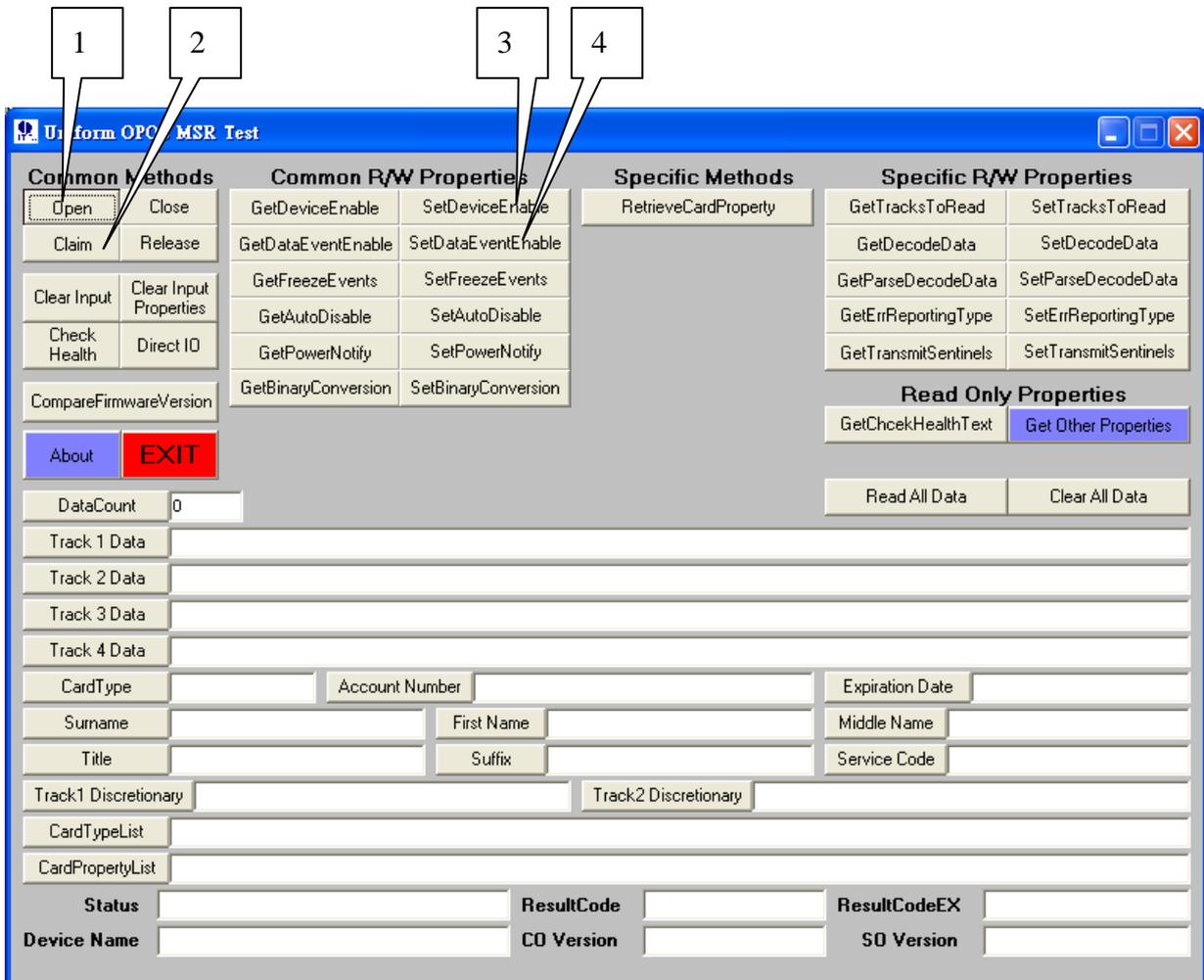
The OPOS Test install shield locates in the directory named “MSR Test”.

Procedure:

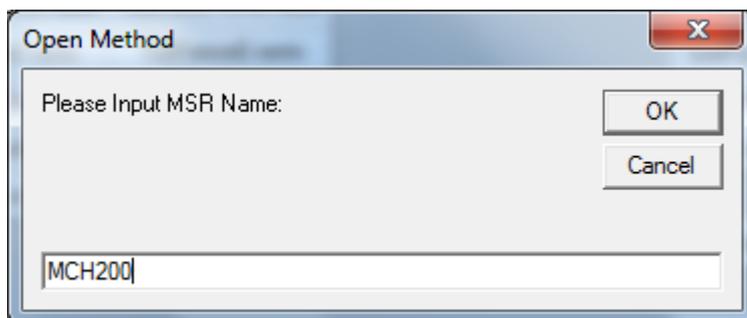
- Execute the MSROPX11.exe file.
- Follow the installation procedure with the default settings.

4. OPOS Test Operation

4.1 Execute program



1. Click the Open button first. After the Open button is clicked, a dialog will be present as below, enter "MCH200" and then click OK.



2. Click Claim button to claim the MSR.
3. Click the SetDeviceEnable button to enable the device. Please refer to the DeviceEnabled property of OLE for Retail POS Application Programmer's Guide.
4. Swipe the Magnetic Stripe Card and click the setDataEventEnable button to get the card data. Please refer to the DataEventEnable property of OLE for Retail POS Application Programmer's Guide.

Note: How an application uses an OPOS control

Basically, the application follows this general sequence:

1. Call Open method.
2. Call ClaimDevice method.
3. Set DeviceEnabled property to TRUE.
4. Use the device.
5. Set DeviceEnabled property to FALSE to disable the device.
6. Call ReleaseDevice method to release exclusive access to the device.
7. Call Close method to release the Service Object.

4.2 Swipe Magnetic Stripe Card

After the buttons were clicked, the color of the buttons will change to green. And you can swipe the magnetic stripe card to get card data.

The screenshot shows the 'Uniform OPOS MSR Test' application window. The interface is organized into several functional areas:

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

Below the button sections, there are several input fields and a status area:

- DataCount:** A text box containing the value '0'.
- Track 1 Data, Track 2 Data, Track 3 Data, Track 4 Data:** Empty text boxes for card track data.
- CardType, Account Number, Expiration Date:** Text boxes for card identification.
- Surname, First Name, Middle Name, Title, Suffix, Service Code:** Text boxes for cardholder information.
- Track1 Discretionary, Track2 Discretionary:** Text boxes for discretionary data.
- CardTypeList, CardPropertyList:** Text boxes for lists of card types and properties.
- Status:** A text box containing 'DeviceEnabled is True'.
- ResultCode:** A text box containing '0'.
- ResultCodeEX:** A text box containing '0'.
- Device Name:** A text box containing 'Uniform MCH200 Magnetic Stripe Reader'.
- CO Version:** A text box containing '1012000'.
- SD Version:** A text box containing '1012002'.

After the card data was read. The DataEventEnabled property will be disabled automatically. So the color of the button will turn back to gray.

Click this button to get other read-only properties that show in 3.3.

Magnetic Stripe Card Data

Status field: Display the Event return code.

4.3 Read Only Properties

OPOS MSR Read Only Properties

Common Read Only Properties

CapCompareFirmwareVersion	True	Claimed	True
CapPowerReporting	OPOS_PR_NONE	OpenResult	Success
CapStatisticsReporting	False	PowerState	OPOS_PS_UNKNOWN
CapUpdateFirmware	False	State	OPOS_S_IDLE
CapUpdateStatistics	False		
ControlObjectDescription	OPOS MSR Control 1.12.000 [Public, by CRM/RCS-Dayton]		
ServiceObjectDescription	MCH200 OPOS Service Object Ver.2000PS1G, (C) 2018 Uniform		
DeviceDescription	Uniform MCH200, USB HID Keyboard		

MSR Specific Read Only Properties

CapCardAuthentication	None	AdditionalSecurityInformation	None
CapDataEncryption	MSR_DE_NONE	CardAuthenticationData	None
CapDeviceAuthentication	MSR_DA_NOT_SUPPORTED	CardAuthenticationDataLength	0
CapISO	True		
CapISOOne	True		
CapISTwo	False		
CapTrackDataMasking	False		
CapTransmitSentinels	True		
CapWritableTracks	MSR_TR_NONE		

OK

4.4 Exit

Click these buttons as following sequence to quit the program.

