

EMVLoopback User Manual

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Change Information

Date	Issue	Author	Description of changes
Sep 8, 2011	1.0	SMSC Team	Initial version
Sep 29, 2011	1.1	SMSC Team	Added support for EMVLoopback version 1.1
Sep 29, 2011	1.2	SMSC Team	Added support for EMVLoopback version 1.2
May 5, 2011	1.3	SMSC Team	Added support for EMVLoopback version 1.3

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1 Introduction

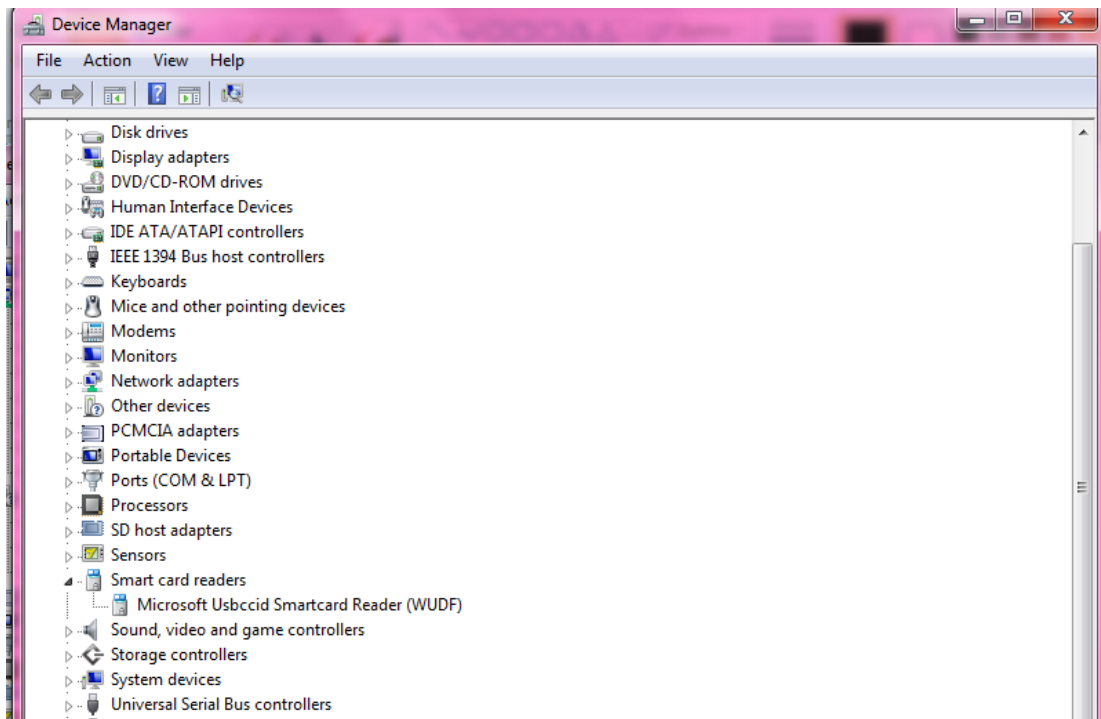
This document is a guide to configure and use the EMVLoopback.exe PC host application.

2 Start and Stop Loopback

Power up the DUT by using a USB cable or directly into host PC and it will enumerate as a Smart card reader.

Most of the Windows OS comes with USBCCID drivers installed by default.

As soon as the reader gets plugged into the system, the usbccid.sys driver gets loaded and the USX101x smartcard reader will be listed in the Device manager as shown below.

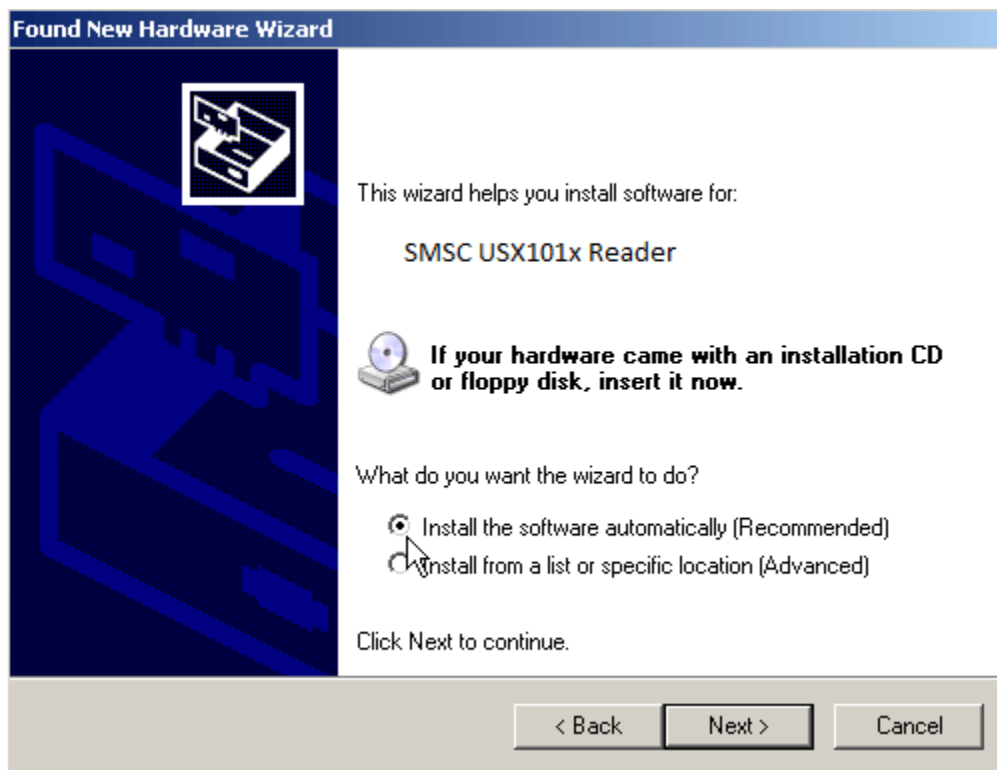


If the driver is not installed, then follow the steps below to install the driver via the Windows Update site

- Connect the reader to a free USB port on your PC.
- Once the smartcard reader is connected, Windows reports that new hardware has been detected and will offer to connect to Windows Update to search for a suitable driver.
- Choose **Yes, this time only** and click **Next** to continue.

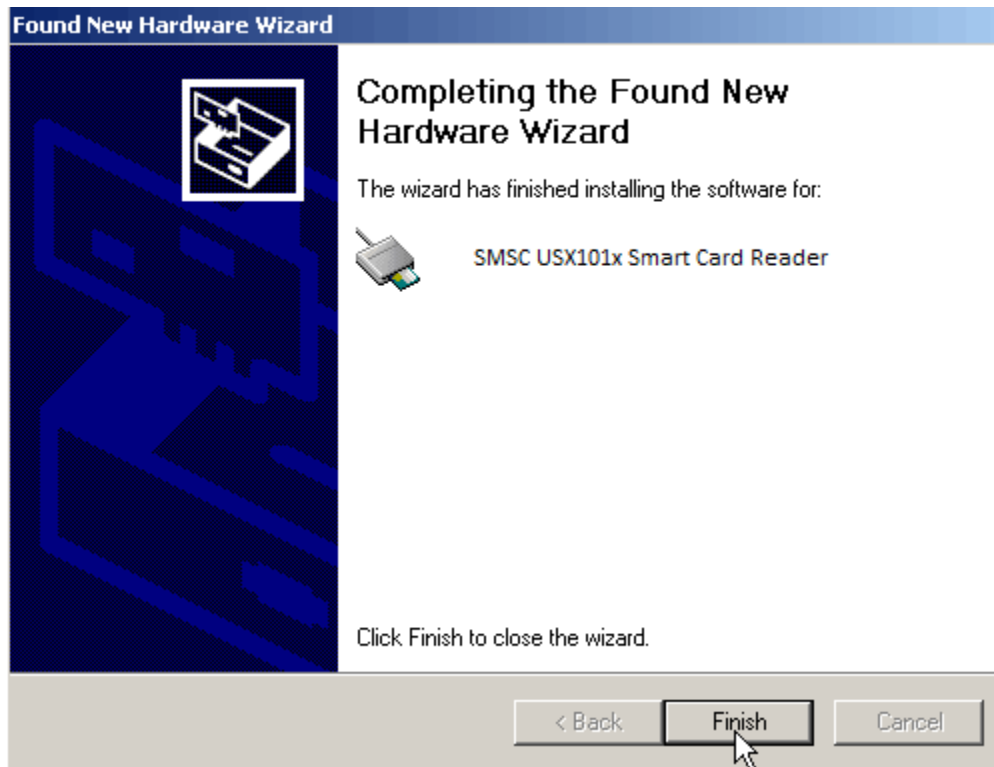


- Choose **Install the software automatically (Recommended)** and click **Next**.



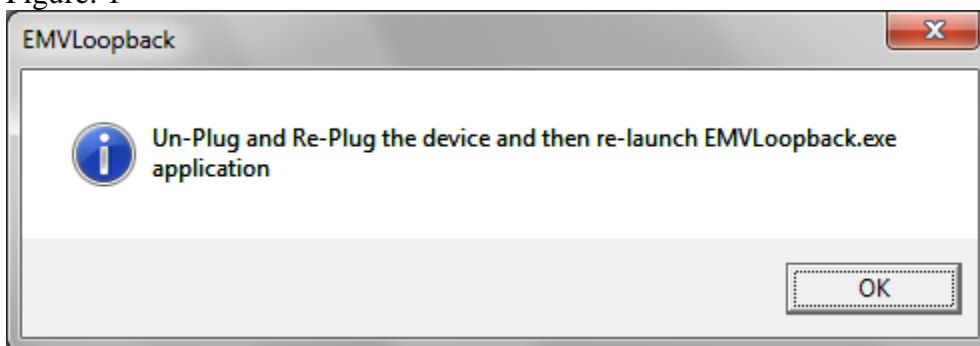
Note: If default ccid drivers package is not installed, take the driver from release package by selecting the driver location using next bullet (Choose **Install from a list or specific location**).

- Click **Finish** when the last window shows that the installation has finished.



On launching, the application might show the below message

Figure: 1



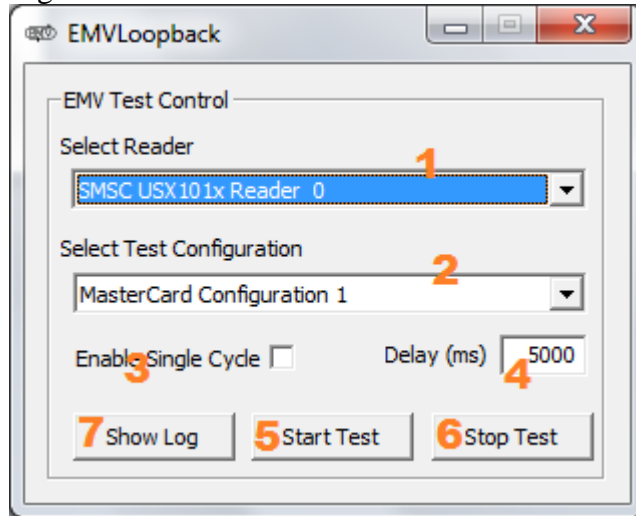
In such case

- a. Click the "OK" button
- b. remove and re-plug the device to be tested and

- c. re-launch the application, now the application dialog will come

Once the application dialog is shown (Figure: 2), follow the below steps to run EMV loopback test application:

Figure: 2



1. Select the right Smart card Reader for testing
2. Select the Test Configuration as
 - a. “**Must Visa Configuration**” for **Must VISA protocol** testing.
 - b. “**MasterCard Configuration 1**” for **IT3 electrical** testing.
 - c. “**VISA CardRight Configuration**” for **PBOC electrical** testing.
3. Enable the single cycle mode if loopback need to be run just for once. If this is not selected the loopback handler will run for ever.
4. Adjust the delay in milliseconds as per the requirement of test.
5. Click “Start Test” to start the loopback handlers
6. Click “Stop Test”, once all the testing is completed
7. The “EMVLoopback.log” file can be viewed at any time by clicking “Show Log”

All the above steps are marked in the main dialog (Figure: 2) for easy identification.

Note: For connecting external power supply use usb A to A connector.
Remove the jumper J2 and connect GND and VCC to J6 Berg Connector as per below diagram.

