AN_12xxF_042 April 2009

Starting EMV Level 1 Test Automation with TSC CCID Driver

Introduction

The procedure described in this application note applies when the Teridian Semiconductor (TSC) CCID driver (ccidtsc.sys) is used for the Automation EMV Level 1 Testing. If a different driver, such as Microsoft® generic CCID driver (usbccid.sys) is used, refer to section *3.4.2.3.1 EMV Level 1 Certification Test* in the document *73S1215F, 73S1217F 80515 SoC Family with USB, ISO-7816/EMV and Pinpad CCID Application Note.*

Procedure

This procedure assumes that the CardSim program for the EMV Level 1 Test Automation is used.

1. Connect the Device Reader to a Host PC running Windows XP® or Vista® through a USB port.

2. Insert the MicroPross test probe into slot 0 of the reader.

3. On the Host computer, begin the CCID-USB application program. Highlight the reader in the Card Reader list, and click the **Select** button to select the reader. If this is the first time the EMV Level 1 test is run, a message pop-up informs the user that a registry key has been set to enable the EMV Level 1 tests, and the user should reset the reader. Click the **OK** button to clear the message. Reset the reader. Also restart the CCID-USB application program and select the reader again.

   Note: This message only appears the first time the EMV Level 1 test is run. When the user runs this test again, the message should not appear unless the registry key has been removed, or reset to zero.

4. After a reader is selected, the **Connect** button, and the **EMV Level 1 Test Automation** button are enabled. It is not necessary to connect to the test probe using the **Connect** button.

5. On the Host computer, begin the CardSim program. In the Multiple Scripts Mode section, click the **Go** button. Follow through two messages. A file browser window appears for the user to specify whether or not a test report should be generated. If desired, specify the file name and the path for the report, and click the **Save** button. Otherwise click the **Cancel** button. The CardSim program now starts executing test scripts.

6. In the CCID-USB application program, click on the **EMV Level 1 Test Automation** button. This enables the EMV Level 1 Test Automation section. Select a mode among **MCI**, **Visa-1**, or **Visa-2**. Select the **LoopBack** option, and specify a **Loop Delay** time in seconds. For the best result, set this value to 15 or 20 seconds. Click the **Start** button. Now the EMV Level 1 Test Automation is running.

7. During the EMV Level 1 Test Automation, there may be some messages displayed in the message window of the CCID-USB application program indicating that an error has occurred. Such messages normally reflect the scenario that the CardSim script is testing, and are not to be considered as a test failure if the CardSim program indicates a Pass result for the particular script.

8. After all the scripts in the CardSim program have completed, click on the **Terminate** button in the CCID-USB application program to stop the test.

Related Documentation

The following 73S12xxF documents are available from Teridian Semiconductor Corporation:

71S1215F Data Sheet
71S1217F Data Sheet
73S12xxF Smart Card Terminal Controller Family Software User's Guide
73S12xxF Evaluation Board User's Guide
Teridian Flash Programming Tool
73S1215F, 73S1217F Boot Loader – DFU Class Firmware Application Note
73S1215F, 73S1217F Windows XP 32 USB CCID and DFU Drivers Installation Guide
73S1215, 73S1217F CCID Application Note
73S12xxF USB-CCID Host GUI Users Guide

Contact Information

For more information about Maxim products or to check the availability of the 73S12xxF, contact technical support at www.maxim-ic.com/support.

Revision History

Revision	Date	Description
1.00	4/27/2009	First publication.