

# PC/SC (IFD) Test Tool Loaner and Sales Program

## PC/SC Working Group

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Table of Contents

- PC/SC (IFD) Test Tool Loaner and Sales Program..... 1
- PC/SC Working Group ..... 1
- Table of Contents..... 1
- 1. Introduction..... 1
- 2. Test Suite Details ..... 2
  - 2.1. The test suite contains the following types of tests: ..... 2
- 3. Requirements for installing and running this test suite..... 2
  - Supported Operating Systems ..... 2
  - Supported PC/SC Test Cards ..... 2
- 4. PC/SC Test Card Loaner Program..... 3
- 5. PC/SC Test Card Sales Program..... 4
  - 5.1. Sales Terms ..... 4
- 6. How to Order?..... 4
- 7. Microsoft WHQL Certification..... 5

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### 1. Introduction

This document describes a test suite which can validate smart card reader drivers written for Microsoft Windows® to be compatible with the PC/SC version 1.0 of the Specification. This is an updated test suite. A set of cards accompany this test suite which must be used to validate the reader behavior. These cards are available for loan or sale from the PC/SC working group.

This test suite includes an updated version of IFDTEST program replacing most of the test cards with versions implemented on more modern smart cards. This new version was necessitated as a result of new cards which have much higher communication speeds (this means that some readers that passed the old test do not pass the new test). The new version cards are available for loan or sale from the PC/SC working group. It should be noted that readers that may have been successfully certified in the past may not pass the new version of the test.

## 2. Test Suite Details

### 2.1. *The test suite contains the following types of tests:*

1. **Card Monitor tests** verify correct detection and handling of card insertion and removal events.
2. **Reader Interface tests** are performed as a sample card is inserted into and removed from the reader, and test specific features of the driver interface.
3. **Resource Manager Simulation tests** simulate the interface requirements between the Smart Card Resource Manager and the reader driver.
4. **Smart Card Provider tests** verify correct reader/driver handling of both nominal and error condition operation communicating with an inserted test card using both T0 and T1 communications.
5. **Power Management tests** verify the correct handling of power management state changes such as shutdown and hibernation.

## 3. Requirements for installing and running this test suite

### Supported Operating Systems

- Windows XP SP2
- Windows Server 2003 SP1
- Windows 2000 SP4
- Windows Vista

### Supported PC/SC Test Cards

(Note that these cards are not available in the open market. They are available for loan or sale from PC/SC working group)

Test Card	Number
Infineon Technologies PC/SC Compliance Test Card Version 1.0	None
Athena T0 test card	1
Athena T0 inverse convention card	2
Axalto 32K eGate	3
Infineon SiCrypt Card Module Test Card (D3)	4

The numbers are used in the labeling of cards, most particularly to distinguish the two Athena and Infineon cards from each other.

## 4. PC/SC Test Card Loaner Program

You will be held to the following Loan Terms, as agreed upon when the Loaner Set was ordered. No exceptions can be made. We thank you in advance for your kind cooperation.

### 4.1. Loan Terms:

#### 1. Shipping/Handling Fee for Shipment to Me

I will be charged USD 5,500 towards rental and shipping/handling charges. This payment covers USD 5,000/- towards deposit and \$500/- towards rental, shipping and handling charges to me for each deck requested. The loan period is 4 weeks. A maximum of 2 extra business days are allowed without charge of late fee or in this case losing of the deposit amount. A maximum of 2 decks can be rented at any time. This payment will be charged to the Mastercard or Visa credit specified on my Payment Fax Form, when the Loaner Set is shipped to me.

I understand that I will be responsible for the payment of any customs/import fees which are assessed on the shipment of the Loaner Set.

#### 2. Shipping Timeframe

The Loaner Set will be shipped to me on a first-come, first-served basis. I understand that I may have to wait many weeks before the Loaner Set can be shipped to me, since there are only few Loaner Sets and there may be many companies who need it.

#### 3. Loan Term

I understand that I may only keep the Loaner Set for four weeks. The four week period will be defined as follows:

Day 1: the day that the Loaner Set is delivered to me, as recorded in the Federal Express tracking information.

Day 30: the day that the Loaner Set must be shipped back to the PC/SC Workgroup Administration, as recorded by the postmark and the Federal Express tracking information.

#### 4. Delinquency Fee

If I do not return the Loaner Set within the four week period, I will forfeit my deposit of USD 5,000/-. In other words, even if I am late by more two days in returning the Loaner Set, the \$5,000 deposit will be forfeited.

I recognize that this delinquency fee exists in order to strongly enforce that all companies return the Loaner Set in a timely manner. If I do not return the Loaner Set at the end of the four week loan period, this represents a serious hardship for other industry participants, and I am fully prepared to pay the delinquency fee as defined above.

I am prepared to make full use of the four-week loan time period which I am allotted, and recognize that no exceptions will be made for my situation. I understand also that any proceeds from the delinquency fee will be used solely for the furtherance of the PC/SC standard.

#### 5. Return Shipping Method

I will return the Loaner Set at the end of the four week loan period using Federal Express service. I will pay the cost of the return express shipping, using the method defined below:

In the USA: FedEx Standard Overnight

Outside of the USA: FedEx International Priority

I understand that no exceptions can be made on this point, and I am prepared to comply with these shipping requirements.

**6. Return Shipping Address**

I will return the Loaner Set at the end of the four week loan period, using the shipping method described above, to the following address:

Debbie Stinson  
 PC/SC Workgroup Administration  
 Open Domain, Inc.  
 9 Crow Canyon Court, Suite 108  
 San Ramon, CA 94583  
 Tel: (925) 855-0558 ext. 11

**7. Compliance to Terms**

By submitting this form to the PC/SC Workgroup Administration, I indicate that I have read and agreed to all of the loan terms, as detailed above.

**5. PC/SC Test Card Sales Program**

PC/SC test cards for development purposes are available for secure credit card purchase. To order, fill in and submit the Order Form below. Orders are typically processed in 2 business days.

**5.1. Sales Terms**

1. The cards sold below are for development purposes only and are to be used for Windows Logo testing.
2. The cards listed below are offered at a special-price. A Maximum of 5 decks (each deck containing one set of 5 cards) of cards may be purchased per company, in an effort to distribute the stock in an equitable fashion.
3. It is important to note that we may not be able to ship you every card which you order, because cards will be sold on a first-come, first-served basis. Your credit card will be charged upon shipment, for the cards which are shipped to you.
4. All listed prices include shipping and handling. Any additional duties and taxes required by customs will be paid by customer.
5. **Cost:** For Members: USD 1,000 for a single deck of cards + taxes and duties as applicable. For Non-Members: USD 3,000 for first deck of cards + taxes and duties as applicable which includes a USD 2,000/- member ship fee which makes them eligible for buying additional deck for USD 1,000/-.

**6. How to Order?**

Contact	<b>Debbie Stinson</b> PC/SC Workgroup Administration 9 Crow Canyon Court, Suite 108 San Ramon, CA 94583, USA
Email	<a href="mailto:admin@pcscworkgroup.com">admin@pcscworkgroup.com</a>
Phone	925-855-0558
Fax	925-855-0460
Certified Checks made payable to	PC/SC Workgroup Administration
Test Suite is available for download @	At this time, WDK can be downloaded as a Beta. One can download the kit from this interface once they have signed up.

	<p><b>How to sign up for WDK beta program</b>          To sign up for the WDK beta program please go to the <a href="http://connect.microsoft.com">http://connect.microsoft.com</a> website and click on the Sign In button. Sign in to the website and then click on Available Connections. Scroll down to "Microsoft Windows Driver Kit (WDK) Beta Program" and click on Apply. You are automatically approved for entry. Please fill out our survey before downloading bits.</p>
WHQL Web Site	<a href="http://www.microsoft.com/whdc/winlogo/default.msp">http://www.microsoft.com/whdc/winlogo/default.msp</a>
Winqual website, which is where customers actually upload submission logs and info	<a href="https://winqual.microsoft.com/default.aspx">https://winqual.microsoft.com/default.aspx</a>

**7. Microsoft WHQL Certification**

- To receive compliance certification, a reader must pass WHQL testing, but already certified readers don't need to recertify.
- The certification includes the WHQL logo version, and customers will need to consider this version number when purchasing readers for newer platforms and applications.
- Manufacturers of readers currently certified will be notified if defects are found in their hardware or driver software. If changes are made, the fix will need to be certified using the new test suite.