



B2 Mobile Test Suite User Guide

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Powered by B2»

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B2 Contact Information

www.b2ps.com

Canada
251 Consumers Road, Suite 1200, Toronto, ON M2J 4R3
Tel: 416.730.9827

U.S.A.
1615 S. Congress Avenue, Suite 103, Delray Beach, FL 33445
Tel: 470.233.7374

Revision History

Version	Date	Revisions
1.00	February 24, 2020	<ul style="list-style-type: none">• Initial document release
1.10	June 22, 2020	<ul style="list-style-type: none">• Added references to “B2 Touchless Test Suite” product
1.20	August 6, 2020	<ul style="list-style-type: none">• Added information on American Express app• Added information on documents and location of current copies
1.30	August 26, 2020	<ul style="list-style-type: none">• Updated list of what is included in an MTS kit

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Chapter 1 - Overview

1.1 B2 Mobile Test Suite

The B2 Mobile Test Suite (TTS) consists of two smartphones pre-loaded with static device test accounts – including American Express, Discover, Mastercard and Visa. This allows organizations to test various forms of mobile payments that consumers may use when making purchases.

1.2 Target Audience

This document is intended for integrators, developers, POS vendors and merchants who wish to develop and test a solution that supports mobile payments using the B2 TTS.

1.3 B2 Touchless Test Suite

The B2 Touchless Test Suite (TTS), announced June 2020, is a product that serves the same market as the B2 Mobile Test Suite. It is described here to aid the reader in differentiating between a Mobile Test Suite and a Touchless Test Suite.

B2's TTS is comprised of three components:

- B2 Mobile Test Suite (MTS) – subject of this document
- B2 Touchless Dual Interface Test Card Collection – a selection of 10 of our most popular dual interface cards. For further information, visit [B2 EMV Test Card Sets](#)
- A selection of B2 University eLearning courses. For more information, visit [B2 University Online eLearning](#) and review the courses: Introduction – Payments & EMV; Contactless Payments

Chapter 2 - B2 Mobile Test Suite Contents

The following items comprise a B2 MTS kit.

- Mobile Test Suite Case
- Apple® iPhone® SE (PRODUCT)RED *
- Samsung® Galaxy® S7 *
- Apple® lightning to USB cable
- Apple® USB power connector
- Samsung® USB power connector
- USB 3.0 (comes with Samsung®)
- MTS User Guide

* B2 reserves the right to substitute other iPhone or Samsung models without notice.

Chapter 3 - Apple® iPhone

This section will outline some information about the iPhone® and its use in a testing environment.

This is a view of the home screen * on the iPhone.



* Screen content is subject to change.

3.1 Powering On and Off

To turn the iPhone® on, press and hold the side button until the Apple logo® appears.

To turn the iPhone® off, press and hold the Side button until the red slider appears then select and drag the Power icon to the right.

Refer to the Apple® Welcome to iPhone® Reference Card for additional information on operation of the phone.

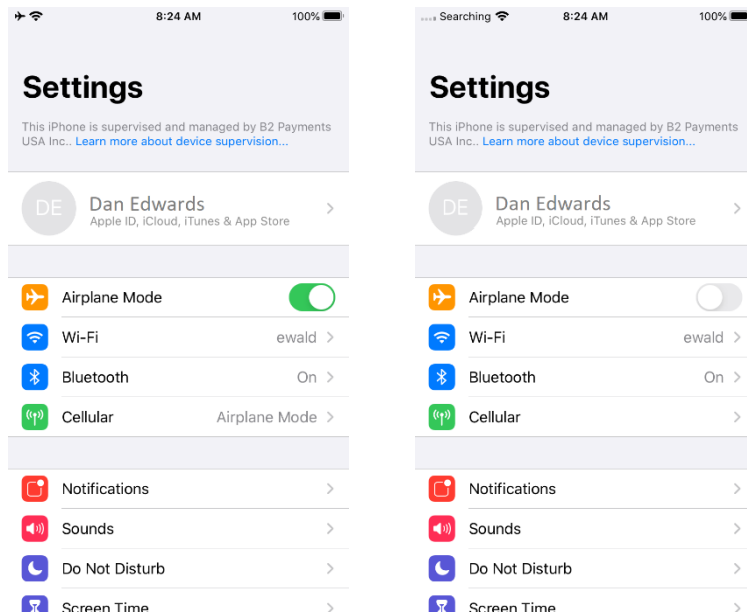
3.2 Settings

3.2.1 Passcode and Touch ID®

The passcode for the iPhone® is '2580'. Touch ID® can be configured by the customer.

3.2.2 Connectivity

Online connectivity is needed to remotely manage and update the iPhone®, or to add cards to the Apple Wallet™. This is primarily done via Wi-Fi. To set up your Wi-Fi tap the Settings icon, then choose Wi-Fi. The phone is shipped with Airplane Mode ON. A SIM card is installed in the phone if Wi-Fi connectivity is not available. To activate the SIM for data usage, please contact B2 at mobile@b2ps.com. Additionally, if you activate the SIM you will need to turn OFF Airplane Mode and turn ON Cellular Data.



3.2.3 Display Lock

The phone screen will shut off after five minutes of idle time. This can be adjusted by selecting Settings->Display & Brightness->Auto-Lock.

3.3 Apple Wallet™

The Apple Wallet™ contains eight cards, two each for American Express, Discover, Mastercard, and Visa. The Apple Cash card isn't activated. Appendix A has information concerning the cards but you will find more complete documentation at: [B2 Touchless Test Suite](#)

Chapter 4 - Samsung® Galaxy®

This section will outline some information about the Galaxy® S7 and its use in a testing environment.

This is a view of the home screen * on the Samsung



* Screen content is subject to change.

4.1 Powering On and Off

To turn the Galaxy® on, press and hold the Power/Lock key until the screen lights.

To turn the Galaxy® off, press and hold the Power/Lock key, then tap 'Power Off' on the screen, then tap 'Power Off' a second time.

You may refer to the Samsung® Quick Reference Manual for additional information on operation of the phone.

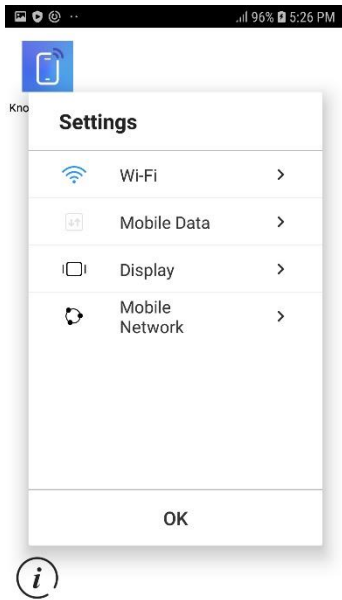
4.2 Settings

4.2.1 Passcode

Unlike the Apple iPhone, there is no passcode for the Samsung Galaxy.

4.2.2 Connectivity

Online connectivity is needed to remotely manage and update the Galaxy®. This is primarily done via Wi-Fi. To set up your Wi-Fi tap the 'i' icon, choose 'Settings', then Wi-Fi. A SIM card is installed in the phone if Wi-Fi connectivity isn't available. To activate the SIM for data usage, please contact B2 at mobile@b2ps.com. Additionally, if you activate the SIM you will need to turn ON Cellular Data.



4.2.3 Display Lock

The phone screen will shut off after ten minutes of idle time. This can be adjusted by tapping the 'i' icon, choose 'Settings', and then Display.

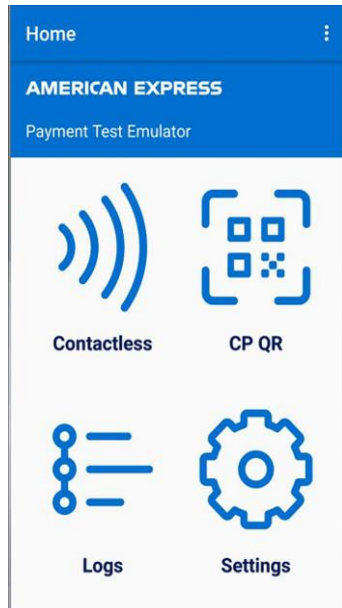
4.3 Apps on the Phone

4.3.1 Samsung Knox® Management

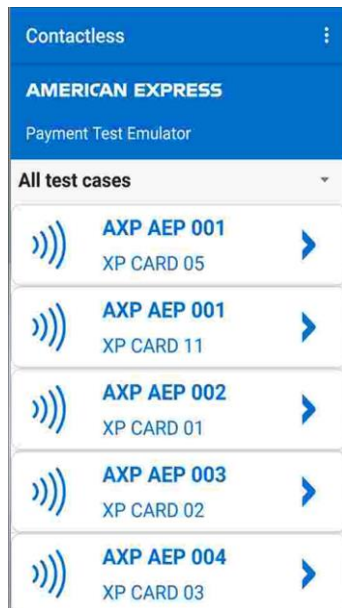
This app assists in remote management of the phone. This isn't used for normal testing by the customer.

4.3.2 American Express Test Emulator

This app contains copies of the card images found in the American Express Global Express Pay Terminal End to End Test Plan. This is a view of the main app screen.



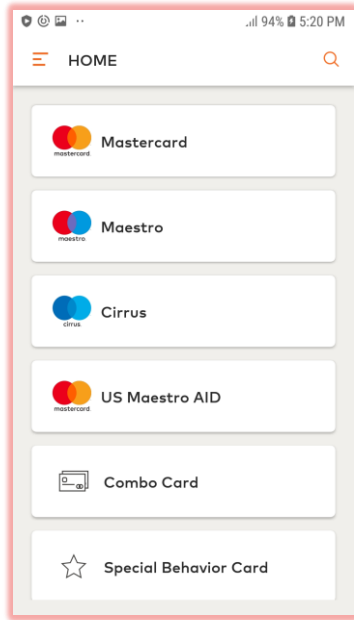
When you tap 'Contactless', the following screen will be displayed. This is where the card images are found.



Additional documentation may be found here: [Amex Payment Test Emulator User Guide](#)

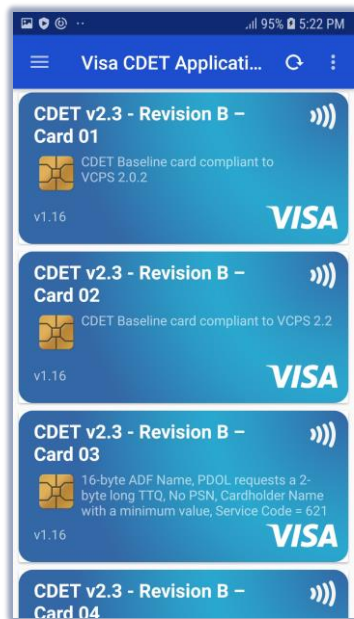
4.3.3 Mastercard Contactless Test Tool

This app contains copies of the card images found in Mastercard's MTIP. This is a view of the main app screen.

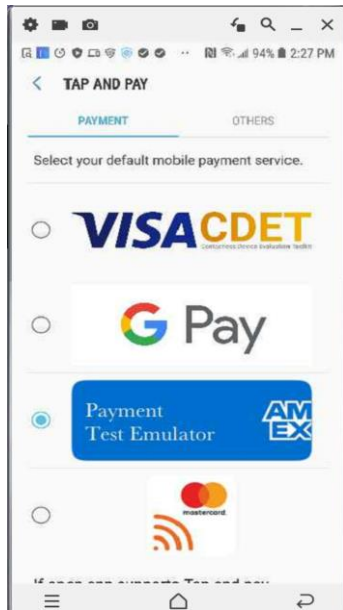


4.3.4 Visa CDET

This app contains copies of the card images found in Visa's CDET. This is a view of the main app screen.



Please note: when switching into the Mastercard and Visa apps, select 'REPLACE' when prompted with "Replace default payment app?" When switching into the American Express app you will need to manually assign the NFC interface to the American Express app. To do this select Menu(Home)->Settings->Tap and Pay Settings (scroll down to this). You will see this screen. Select Payment Test Emulator as shown here.



4.4 Transaction Tracing and Log Files

The American Express, Mastercard and Visa apps both communicate with the contactless interface on a PIN Pad/POS Terminal via the phone's NFC interface.

The information transmitted between the NFC interface and contactless reader can be displayed on the phone's screen, as well as stored in log files.

For further review, the log files can be transferred to a Windows-based computer or a computer with MacOS. To transfer the files, connect the included USB cable between the phone and the computer.

On a Windows-based computer the phone will be visible in Windows Explorer.
On a MacOS-based computer you will need to install an app called 'Android File Transfer'.

Once the phone is connected to a computer, the log files can be found on the phone in these locations:

American Express:	\Amex\logs
Mastercard:	\Document\Mastercard_L3_Logs
Visa:	\CDET\logs

To ensure that logging is turned on in each app, check the following settings:

American Express:	Menu (Home) -> Settings -> File Access
Mastercard:	Menu -> Settings -> 'Display Logs' slider to the right. Also, the storage path of the log files is listed here as well.
Visa:	Menu -> Settings -> Tick the 'Display Log' box

Chapter 5 - Support

For any support issues you may have or for questions related to usage and functionality of the phones, as well as additional guidance on how to handle hardware issues please contact mobile@b2ps.com.

Two documents are published to support MTS and TTS. B2 MTS User Guide (this document and B2 Touchless Test Suite Technical Guide. Current copies of these documents can be found [B2 MTS User Guide](#) and [B2 TTS Technical Guide](#).

As mentioned previously, each phone is managed using the B2 Mobile Device Management (MDM). This gives B2 the ability to remotely update applications on the phone and, in the case of the Samsung® Galaxy®, the ability to remotely control the phone.

Appendix - Apple Wallet™ Test Cards

A.1 American Express 1

PAN: 3499 562866 52212
Exp Date: 11/2022
CID: 1111
Device Account Number (DAN): 3702 957571 60955

A.2 American Express 2

PAN: 3499 567268 99159
Exp Date: 11/2022
CID: 1111
DAN: 3702 959001 00684

A.3 Discover 1

6011 0009 9606 5037
Exp Date: 11/2022
CID: 111
DAN: 6504 8402 4170 4177

A.4 Discover 2

PAN: 6011 0009 9631 8741
Exp Date: 11/2022
CID: 111
DAN: 6504 8402 4043 1855

A.5 Mastercard 1

PAN: 5204 2477 5000 1471
Exp Date: 11/2022
CVC: 111
DAN: 5204 2427 5008 6937

A.6 Mastercard 2

PAN: 5204 2452 5000 1488
Exp Date: 11/2022
CVC: 111
DAN: 5204 2402 5037 2716

A.7 Visa 1

PAN: 4761 1200 1000 0492
Expiration Date: 11/2022
CVV: 533
DAN: not-static

A.8 Visa 2

PAN: 4123 4000 7332 0224
Expiration Date: 11/2022
CVV: 989
DAN: not-static