



# Visa Fleet Chip

## Terminal Testing and Approval Requirements

Version 1.0



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Visa Public



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## About This Guide

### *Purpose of Document*

This document serves as a guide to the Visa Approval Services testing and approval process for Visa Fleet Chip Terminals (hereafter referred to as "VFC Terminal(s)"). It includes information needed by Device manufacturers (hereafter referred to as "Device Vendors") and Visa internal personnel to understand Approval Services' requirements and process for the approval of EMV Terminals that are capable of supporting Visa Fleet Chip transactions.

### *Visa Recognized Laboratories*

Visa has accredited test laboratories to execute the testing process on behalf of Visa. The functions of a Visa recognized laboratory (hereafter referred to as "Laboratory") are discussed throughout this document. Please see Appendix B for more information.

### *Specifications and Requirements*

Device Vendors are responsible for developing their VFC Terminal(s) according to the appropriate EMVCo and Visa specifications and requirements. Visa specifications and requirements require a technology license agreement. Technology license agreements can be obtained from the Visa Technology Partner website, under 'Registration and Licensing'. [Appendix A](#) in this document provides information about selected specifications and requirements.

### *Support and Contact Information*

Visa's goals are to provide a formal, standardized process for testing terminals that support Visa's Fleet chip card transactions, and to enhance communication between all participants in the testing and approval process. Visa Approval Services (hereafter referred to as "Approval Services") provides a single point of contact, both for vendors and for Visa personnel, regarding the testing process.

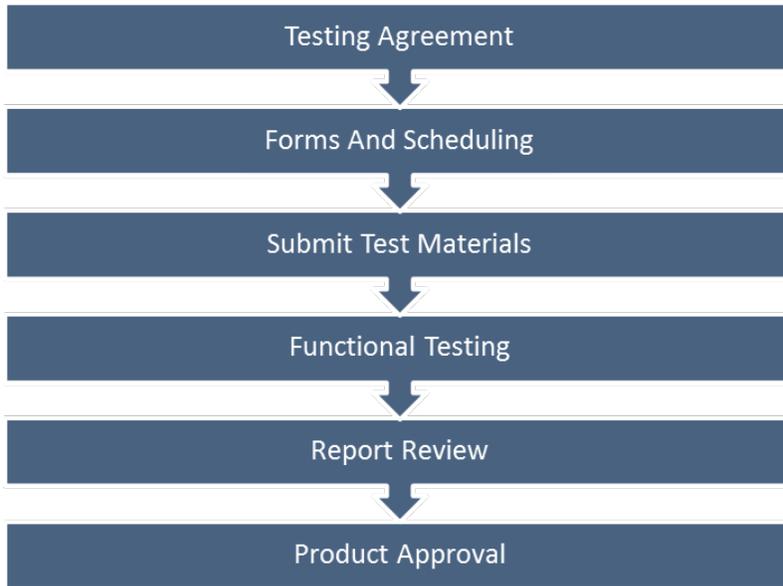
**Table 1 Approval Services Contact Information**

Email:	<a href="mailto:ApprovalServices@visa.com">ApprovalServices@visa.com</a>
Visa Technology Partner Website:	<a href="https://technologypartner.visa.com">https://technologypartner.visa.com</a>
Approval Services Website:	<a href="https://technologypartner.visa.com/Testing/TestMaterials">https://technologypartner.visa.com/Testing/TestMaterials</a>
Postal Address:	Visa Worldwide Pte Ltd Approval Services Mailstop SP10-B1 10 Eunos Road 8 #07-01 Singapore Post Centre 408600 Singapore

# 1 Device Testing Overview

This section provides an overview of Visa’s testing and approval process for VFC Terminals.

**Figure 1. Overview of Visa Testing and Approval Process**



The testing and approval process ascertains a level of confidence that a VFC Terminal has correctly implemented the Visa Fleet Chip Specification and meets Visa’s additional requirements, such as obtaining an EMVCo type approval certification for Contact (IFM) Level 1 and Contact Level 2 functionalities.

To start the process, Device Vendor will first register on the Visa Technology Partner website and license the applicable Visa specifications.

Subsequently, Device Vendor will need to execute the Approval Services Testing Agreement (ASTA) available on the Visa Technology Partner website.

Approval Services will review submission forms, including the Visa Fleet Chip for Terminals Questionnaire and Implementation Conformance Statement and, if accepted for testing, issue testing authorization to the Visa-recognized Laboratory. It is the Device Vendor’s responsibility to liaise with the Laboratory to arrange testing.

Approval Services does not get involved with scheduling between the Device Vendor and the Laboratory.

Device Vendors submit their product with the EMV contact application kernel that supports the Visa Fleet Chip functionalities, PIN Pad (if applicable), supporting components, peripherals and documentation / product manuals, and submission forms to their selected Laboratory for testing.

The Laboratory will execute a set of Visa-defined test cases and prepare a test report for the Device Vendor’s review, and authorization for submission to Visa for evaluation.

Visa's test report review and evaluation concludes with the issuance of a Letter of Approval for a successful evaluation or a failure notification if product does not meet Visa's requirements.

The approval is valid globally, unless restrictions are specified in the Letter of Approval.

Note: Approval is not transferable from one vendor's product to another.

### **1.1 EMVCo Device Testing and Approval - Contact Only Terminals**

For an EMV Terminal that also supports the Visa Fleet Chip functionalities:

- Vendor shall select the Configuration and/or PIN Pad and Operating System is to be submitted for Visa Fleet Chip Terminal testing and approval.
- If there is no specific Configuration and/or PIN Pad and Operating System selected, the baseline Configuration and/or PIN Pad and Operating System shall be selected for Visa Fleet Chip Terminal testing and approval.
- It is recommended that Vendor selects the Configuration and/or PIN Pad and Operating System combination that supports a majority of the EMV functionalities.
- A valid EMVCo Contact Terminal Level 1 (IFM) Approval Number shall be submitted to Visa.
- A valid EMVCo Contact Terminal Level 2 Approval Number(s) for each of the selected Configuration and/or PIN Pad and Operating System shall be submitted to Visa.
- A Vendor has the option to submit their product for Visa Fleet Chip Terminal testing and approval in parallel with the EMVCo Contact Terminal Level 1 (IFM) and/or Contact Level 2 type approval process.
- However, Visa requires the VFC Terminal to be approved for EMVCo Contact Level 1 (IFM) and Contact Level 2 prior to Visa's approval.

Details of EMVCo's Contact Terminal Level 1 and Level 2 Type Approvals administrative process, specifications, and test requirements are available on EMVCo's website at <http://www.emvco.com>.

Please contact EMVCo directly for more information.

### **1.2 Visa and EMVCo Device Testing and Approval – Contact and Contactless Terminals**

If the VFC Terminal also contains a Visa contactless application kernel that has not been approved by Visa:

- The product shall be submitted through the Visa Contactless Chip Card Acceptance Device Testing and Approval process.
- Visa requires the PCD to have obtained EMVCo's Contactless Terminal Level 1 type approval prior to Visa's approval. Contact EMVCo directly for more information.

## **2 Agreements and Licenses**

To gain access to information needed to develop products according to Visa's chip technology and subsequently submit chip products for testing and approval, Device Vendors must register and obtain licenses on the Visa Technology Partner.

Please refer to the Visa Technology Partner website for registration and licensing details.

### **2.1 Approval Services Testing Agreement (ASTA)**

Vendors are also required to execute an Approval Services Testing Agreement (ASTA) with Visa.

This agreement between Visa and the vendor defines the terms and conditions governing the testing and approval process for a chip product. It also allows access to Visa's confidential and proprietary testing materials. Please contact Approval Services to initiate the testing agreement process.

### 3 Forms and Scheduling

Submission forms are available to download from the Approval Services section of the Visa Technology Partner website.

This section discusses the form and scheduling requirements to initiate testing for a VFC Terminal.

#### 3.1 Approval Services Questionnaire & Implementation Conformance Statement

For each product submitted for testing, the Device Vendor shall complete and email the Fleet Chip for Terminals Questionnaire and Implementation Conformance Statement (ICS) to Approval Services.

Approval Services reviews the form to determine the product’s eligibility for testing, define the testing requirements, and issue testing authorization to the Laboratory.

Details in the form shall reflect final details of the product. Any changes to the form after submission is not acceptable.

**Table 2 Questionnaire/ICS Submission Process**

Device Vendor	Complete the Visa Fleet Chip for Terminals Questionnaire and Implementation Conformance Statement and sends it to Approval Services.
Approval Services	<p>Reviews the questionnaire.</p> <ul style="list-style-type: none"> <li>• Advises the Device Vendor if product is not eligible for testing.</li> </ul> <p>If submission is eligible and accepted, provide Device Vendor a Visa Reference Number (VTF). This will be the official identification of the product through the current cycle of testing and approval process.</p> <ul style="list-style-type: none"> <li>• Once testing requirements are determined, Approval Services will send a testing authorization to the Laboratory and notify the Device Vendor.</li> </ul> <p><b>Important Note:</b></p> <ul style="list-style-type: none"> <li>• Testing may not begin until Laboratory receives the Visa Reference Number (VTF) and formal testing authorization from Approval Services.</li> </ul>
Device Vendor	Schedules testing and completes forms as stated in processes for <a href="#">Scheduling</a> and <a href="#">Required Forms for Testing</a> .

### IMPORTANT NOTE

If the VFC Terminal has issues or failures during testing that would not allow for testing to be successful, or the Device Vendor would like to withdraw product from the current test cycle:

- Device Vendor and/or Laboratory must notify Approval Services immediately via email. Official testing for current test cycle shall stop.
- Device Vendor may resubmit the VFC Terminal with fixes/rectification/changes for testing and approval. Resubmission process shall be as documented in the previous sections.
- Approval Services will authorize a new test cycle based on the eligibility of the resubmission.
- Test results from the previous test cycle cannot be used.

## 3.2 Scheduling

The Device Vendor and Laboratory are responsible for test scheduling. Visa is not responsible and does not get involved with the scheduling of testing between the Device Vendor and Laboratory.

### IMPORTANT NOTE

A Device Vendor has 6 months from the testing authorization date to authorize the Laboratory to submit test results to Approval Services for review and evaluation.

**Table 3 Overview of Scheduling**

Device Vendor	Contacts a Laboratory to schedule functional testing. Provides all required forms for testing.
Testing Laboratory	Provides a testing date and estimated time to complete testing.
Device Vendor	Notifies the Laboratory directly of any delay in submitting a product for testing.

### 3.3 Required Forms for Testing

Testing will not begin until the Laboratory has received all forms described in Table 4. All forms are exclusive to each test cycle, if the VFC Terminal exits the current test cycle due to failures or withdrawals, a new set of forms must be completed and submitted for the next test cycle.

**Table 4 Forms Required for Testing**

<b>Form</b>	<b>Description</b>
Visa Fleet Chip for Terminals Questionnaire and Implementation Conformance Statement	Provides configuration details of submitted product, including Visa application information, Level 1 approved PCD, and functional options supported for Visa Fleet Chip Terminal Specification.
Exhibit A Request for Testing Services	This document includes the Exhibit A – Request for Testing Services and Request for Approval Forms. It describes the scope of tests or services that have been performed under the Approval Services Testing agreement. It also establishes Visa’s right to review test reports and test results submitted by the Laboratory, as authorized by the Device Vendor.

### 3.4 Testing Materials Requirements

This section lists the requirements for submission of a VFC Terminal, in addition to the forms discussed in [Section 3: Forms and Scheduling](#).

#### **VFC Terminal Sample Units**

The Device Vendor must submit **two** complete identical sample units of the product to the Laboratory.

The Laboratory will choose and submit **one** sample units to Approval Services for review and evaluation.

Sample units must comply with the requirements below.

#### **Visa Fleet Chip Terminal Specification Compliance**

The VFC Terminal must comply with the Visa Fleet Chip Terminal Specification that is currently supported by Visa, including any associated documents referenced in the specification.

## Visa Fleet Chip Terminals Testing and Approval Requirements

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The product must be compliant to Visa's specifications as listed in [Appendix A<sup>1</sup>](#).

### **Application Versions**

The application versions, including the EMV application kernel with Fleet chip functionalities submitted in the VFC Terminal must be in their final versions and must be representative of a final deployment.

All application firmware/software versions must be identical to those specified in the Questionnaire authorized for testing at the Laboratory.

### **Device Test Environment**

All submitted VFC Terminals must be accompanied by a Terminal or Acquirer Host simulator or Software Development Kit (SDK).

The simulator must be able to (depending on the physical architecture of the product):

Show, in a readable format, the data being sent from the Terminal to the Acquirer:

- Perform online approvals or declines for an EMV transaction.
- Allows the user to review and confirm data elements sent from the Terminal are formatted according to Visa Fleet specifications.
- Support issuer script processing.

### **Operating Manual**

A softcopy of the Operating Manual that describes the set up requirements and operating procedures for the VFC Terminal must accompany the sample units submitted at each test cycle.

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<sup>1</sup> Visa does not test proprietary or domestic applications as part of the testing process. In particular, the following are outside the scope of testing: Non-Visa Applications (e.g., cash, loyalty, coupons, refunds, etc.), and specific message formats, record layouts, and protocol handling from the VFC Terminal to an Acquirer host system.

### **Visa Fleet Chip Terminal Specific Configuration Mechanism**

The submitted VFC Terminal shall include mechanism(s) to allow configuration of the following Fleet Terminal data elements defined in the Visa Fleet Chip Terminal Specification.

The VFC Terminal shall be configurable to assign:

- Visa Fleet AID 'A0 00 00 00 03 40 10'
- Different values to country and/or region codes
- Different values to the day of the week (Sunday through Saturday)
- Different values to the time of the day (24 hour time representation beginning 0000 through 2359)

The VFC Terminal shall include mechanism(s) to:

- Indicate a commercial fuel transaction
- Indicate a non-commercial fuel transaction
- Assign different values to a product table (e.g. C0 76 01, A0 76 02, F0 73 07 etc) and/or multiple product tables (if supported)
- Assign different product descriptions to a product code across multiple product tables
- Assign different values to VRN, Mileage, Fleet Number, Driver Name, Driver ID and Job Number

## **4 Test Documentation and Tools**

Visa's Test Plans and Test Scripts are available to assist Device Vendors with their quality assurance (QA) testing prior to the official testing process. Successful completion of QA testing does not imply approval nor represents the full scope of testing required by Visa.

Visa reserves the right to develop and implement additional tests that are not part of the current Test Plan. Testing at the Laboratory may subject the VFC Terminal to additional physical and situation specific tests as required.

### **4.1 Test Plans**

Test Plans will be accessible online via the Visa Technology Partner website upon completion of all necessary license agreements.

Visa grants a Device Vendor permission to use the test plans solely for purposes of developing and testing products for a Visa application, subject in all respects to the terms and the continued effectiveness of the applicable license agreement between the Device Vendor and Visa.

Test Plans and all intellectual property subsisting therein are the property of Visa. These materials are provided on an "as is" basis "with all faults." Visa disclaims all warranties pertaining to these materials, expressed or implied, including the implied warranties of merchantability, fitness for purposes, or non-infringement.

### **4.2 Commercial Test Tools and Test Scripts**

Commercial Test Tools and Test Scripts developed to support Visa's Test Plans are available from Test Tool Vendors. Contact details of the Test Tool Vendor for VFC Terminal tool is available on the Approval Services website.

### **4.3 Enhancements and Modifications**

Test Plans and Test Scripts are subject to enhancements and modifications at any time. Test Plan revisions will be accumulated and made available to Device Vendors with new releases as determined by Visa. It is the Device Vendor's responsibility to ensure that they have the most current test plan available. Device Vendors should contact the Test Tool supplier to obtain any Test Script updates.

### **4.4 Quality Assurance Testing**

Laboratories performing Visa functional testing may do QA testing that can be completed prior to submitting a device for official testing. However, QA test results will not be accepted as part of Visa's official testing and approval process.

### **4.5 Other Tools (ADVT or Regional Testing)**

These are not within the scope of the Approval Services testing and approval process. Please refer to the Product Toolkits section on the Visa Technology Partner website for information.

## 5 Functional Testing

### 5.1 Test Goal

A goal of testing is to ensure that the VFC Terminal is fully compliant to the Visa Fleet Chip Terminal Specification.

### 5.2 Test Cycle

A Test Cycle is a set of applicable Test Scripts that are to be executed on a single version of the VFC Terminal during Visa's testing process.

A successful Test Cycle is defined as completion of all the executed Test Scripts with no issues.

### 5.3 Test Scope

A VFC Terminal is tested according to the Visa Fleet Chip Terminal Specification version and functionalities declared in the Implementation Conformance Statement (ICS). Product will be tested with Test Scripts that are based on the latest applicable versions of the Terminal Test Plan for Visa Fleet Chip Specification.

Testing focuses solely on Visa's Fleet Chip Terminal functionalities and supporting components that impact the application.

### 5.4 Test Scope Exclusions

The following are excluded from the Functional Testing scope:

- EMV Contact application kernel functionalities
- Components and firmware/software, including proprietary software that exists in the product.
- Regional requirements. Please contact a regional Visa Representative for more information.

### 5.5 Laboratory Test Results

Upon completion of Visa Fleet Chip Terminal testing, Laboratory will submit an official report outlining the test results to the Device Vendor. The Device Vendor will be required to review these results and authorize the Laboratory to release the complete report for Approval Services' review.

#### **IMPORTANT NOTE:**

- Laboratory is required to submit all test results to Approval Services within 6 months from the official Testing Authorization.

There are two possible outcomes from the testing of a VFC Terminal:

#### **1. VFC Terminal Fails Testing**

The Laboratory sends a report to the Device Vendor identifying the Visa Fleet Chip Terminal tests that failed and the reasons for the failures.

The Device Vendor can choose to resubmit a failed product for a new test cycle with the following steps:

- Rectify the identified issues.
- Complete a new Visa Fleet Chip for Terminals Questionnaire and Implementation Conformance Statement form with details of the changes made and submit to Approval Services for review and testing authorization.
- Contact the Laboratory for scheduling a new test cycle.
- Complete and submit a new set of forms listed in section [Required Forms for Testing](#) prior to starting the new test cycle.
- Submit a new set of sample units as listed in section [Testing Materials Requirements](#).

#### **2. VFC Terminal Passes Testing**

The Laboratory sends a final test report to the Device Vendor for review.

The Device Vendor reviews the results to determine if they wish to submit the results to Approval Services for review.

The Device Vendor completes and signs the Exhibit A Request for Testing Services form and provides it to the Laboratory. The form authorizes the Laboratory to send an electronic copy of the final report to Approval Services for review.

The submitted test results shall not be older than 90 days from the day testing was completed. Test results older than 90 days are considered as expired and cannot be submitted for Approval Services review and evaluation.

If the validity period of 90 days is exceeded and Approval Services review is required, application retesting is required to create a most current test report for submission.

# 6 Approval Process

This section describes the processes and rules governing the approval of a Visa-branded payment chip acceptance device product.

## 6.1 Legal Conditions and Restrictions

Visa's approval only applies to products that are identical to the product tested by Visa or one of Visa's recognized laboratories. A product may not be considered approved by Visa, nor promoted as approved, if any aspect of the product is different from that which was tested by a laboratory or by Visa, even if the product conforms to the basic product description contained in the Letter of Approval (LoA). For example, even though a product contains applications or operating systems that have the same name or model number as those tested by one of Visa's recognized laboratories or by Visa, but the product is not identical to the features previously tested by one of Visa's recognized laboratories or by Visa, the product should not be considered or promoted as approved by Visa.

Visa's approval is granted solely in connection with a specific product and to the submitting vendor. Such approval may not be assigned, transferred or sublicensed, either directly or indirectly, by operation of law or otherwise. Only vendor(s) that receive a Visa approval for a chip card acceptance device product may state that they have the approval.

No manufacturer, chip supplier, or other third party may refer to a product, service or facility as "Visa-approved," nor otherwise state or imply that Visa has, in whole or in part, approved any aspect of a manufacturer, or supplier, or its products, services or facilities, except to the extent and subject to the terms and restrictions expressly set forth in a written agreement with Visa, or in a Letter of Approval provided by Approval Services. All other references to Visa approval are strictly and actively prohibited by Visa.

When granted, Visa approval is provided by Visa to ensure certain security and operational characteristics important to Visa's systems as a whole, but does not, under any circumstances, include any endorsement or warranty regarding the functionality, quality or performance of any particular product or service. Visa does not warrant any products or services provided by third parties. Approval does not, under any circumstances, include or imply any product warranties from Visa, including, without limitation, any implied warranties of merchantability, fitness for purpose or non-infringement, all of which are expressly disclaimed by Visa. All rights and remedies regarding products and services which have received Visa approval shall be provided by the party providing such products or services, and not by Visa. Unless otherwise agreed in writing by Visa, all property and services contemplated in this document, which Visa provides to any third parties, are provided on an "as-is" basis, "with all faults" and with no warranties whatsoever. Visa specifically disclaims any implied warranties of merchantability, fitness for purpose or non-infringement.

The issuance of the approval letter is conditioned upon the vendor having executed all necessary agreements, including without limitation, the applicable license agreements with Visa, and shall be of no force and effect unless such agreements have been executed contemporaneously with or prior to the issuance of the approval letter.

Visa performs limited testing to ascertain a product's compliance with any required specifications and may perform interoperability testing with other approved products. Visa's limited testing program is not designed to establish the functionality of an approved product in all potential conditions in which it may be used. Visa's approval does not in any circumstances include or imply any guarantees, assurances or warranties that the approved product will operate in all possible settings or in connection with any other approved product.

### **6.2 Visa Approved Products List**

Upon successful completion of official testing and approval, the VFC Terminal will appear in the Visa Approved Products List on the Visa Technology Partner website. The Visa Approved Products List is published and updated each month. The Letter of Approval from Approval Services qualifies the product as an approved Visa product.

## 7 Renewal of a VFC Terminal

This section describes the requirements and process of renewing the approval of a VFC Terminal.

### 7.1 Renewal Criteria

VFC Terminals are eligible for renewal if they meet all of the following criteria:

- Complies with Visa's supported versions of specifications and requirements as described in [Appendix A](#).
- The Letter of Approval does not contain Approval Comments, e.g. specification deviations or items identified during testing that must be addressed in the next version of the product.
- Successfully completes any required additional testing.
- EMV Contact Level 1 (IFM) and EMV Contact Level 2 Letter of Approvals should still be valid and not expired at the time of renewal.

### 7.2 Renewal Process

When a VFC Terminal is approved by Visa, it is assigned a renewal date which is communicated to the Device Vendor in the Letter of Approval, and appears on the Visa Approved Products List.

Unless otherwise noted, a Renewal Date is typically two years from the date of approval. Derivative Products leveraging on a Parent Product shall inherit the Parent Product's Renewal Date.

As the VFC Terminal approaches its Renewal Date, Visa will review the product details for compliance to all current Visa policies, including the Visa Fleet Chip Terminal Specification that Visa continues to support.

Approval Services will determine if a VFC Terminal is eligible for renewal based on the renewal criteria listed in section [Renewal Criteria](#).

Approval Services will contact the Device Vendor 6 months prior to the product's renewal date. The Device Vendor will need to confirm via email to Approval Services that they wish to renew their product and that the product remains as approved by Visa, is still supported in the field and the product meets Visa's current renewal policy. When Approval Services receives this confirmation email, the product is renewed for an additional 2 years. The Letter of Approval will not be reissued, but the change in the Renewal Date will be reflected in the Visa Approved Product List on the Visa Technology Partner website.

### 7.3 General Conditions and Exceptions

If a VFC Terminal does not meet the renewal criteria outlined in section [Renewal Criteria](#).

- The Device Vendor will not be notified that the product is not eligible for renewal.
- The VFC Terminal will be removed from the Visa Approved Product List the month following the Renewal Date.

Renewals are linked to the conditions contained in the Letter of Approval sent to the Device Vendor. If problems are identified with an approved product Visa may revoke the approval. Visa reserves the right to revoke the approval at any time.

Visa reserves the right to amend this policy without prior notice. The effective date of any such change will be communicated to Visa personnel and Device Vendors.

## 8 Changes to Previously Approved VFC Terminals

Device Vendors may make certain changes to a VFC Terminal on the Visa Approved Products List (see sections below for qualified changes). The VFC Terminal must be currently approved and has completed all required testing. The product must not contain any comments or specification deviations in the Letter of Approval.

To initiate a change request, the Device Vendor must submit a Visa Fleet Chip for Terminals Questionnaire and Implementation Conformance Statement to Approval Services. After testing and review is complete, a new approval will replace the original approval on the Approved Products Lists.

**Note:** *Device Vendors that have received a Letter of Approval from Visa that identified in the comment/specification deviations section issue(s) that must be corrected in the next version of the product submitted for testing may not use the process outlined in this section to make changes to the approved product.*

### 8.1 EMV Approved Configuration and/or PIN Pad and/or Operating System

The change is to replace the VFC Terminal's existing EMV approved Configuration and/or PIN Pad and/or Operating System with another EMV approved Configuration and/or PIN Pad selected from the EMVCo Contact Terminal Level 2 certification submitted with the previously approved product. The Device Vendor intends that the original product will no longer be supported as approved. The original approval will then be revoked and a replacement Approval Letter issued. The product that was approved and appears on the Visa Approved Products List will have different components than were originally tested.

**Note:** *The replacement EMV Configuration and/or PIN Pad and/or Operating System shall be selected from the EMVCo Contact Level 2 certification that was submitted with the original product.*

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## Appendix A: Specifications and Requirements

This appendix lists specification and requirements that apply to the devices tested by Laboratories, and indicate where each may be obtained.

Devices that support Visa Fleet Chip transactions must support the Visa Fleet Chip Terminal Specification listed below. EMVCo's Contact Level 1 (IFM) and Contact Level 2 specifications are required to develop the interface module and contact functionality required by Visa.

**Table 5 Specifications for Visa Contactless Payment**

Specification	Available Through:
Visa Fleet Chip Terminal Specification	<a href="https://technologypartner.visa.com">https://technologypartner.visa.com</a>
EMV Integrated Circuit Card Specifications for Payment Systems Version 4.3	<a href="http://www.emvco.com">www.emvco.com</a>

Please refer to Visa Chip Bulletin 16, on the Visa Technology Partner website, for information about currently supported specification versions for chip products.

## Appendix B: Testing Availability by Laboratory

Visa Technology Partner website has details about Visa recognized laboratories at <https://technologypartner.visa.com/Testing/TestMaterials.aspx>.

Please contact the Laboratory for current pricing and contractual agreements, and to obtain information on scheduling testing.

Refer to EMVCo's website for a list of laboratories that perform testing for EMVCo's Contact Level 1 (IFM) and Contact Level 2 approvals.

## Appendix C: Glossary

This appendix defines selected terms used in this document.

Agreements	See section <a href="#">Approval Services Testing Agreement (ASTA)</a> .
EMV	EMV Integrated Circuit Card Specifications for Payment Systems, developed by EMVCo.
EMV Level 1	EMV Level 1 testing addresses the mechanical, electrical and protocol aspects of the interface module of the card acceptance device.
EMV Level 2	EMV Level 2 testing addresses the application kernel.
EMVCo	A consortium comprised of American Express Company, China UnionPay, Discover Card, JCB International, MasterCard International, and Visa Inc that manages, maintains, and enhances the EMV Integrated Circuit Card Specifications for Payment Systems.
Exhibit A Request for Testing Services	A form, signed by the device vendor and by Visa, that establishes Visa's right to review results submitted by the vendor, following testing at a laboratory; must be submitted before testing begins.
Forms	See section <a href="#">Required Forms for Testing</a> .
Implementation Conformance Statement / ICS	See section <a href="#">Required Forms for Testing</a> .
IFM	Interface Module
Laboratory	In this document, refers to a Visa-recognized laboratory that tests chip card products or devices in preparation for approval by Visa.
Letter of Approval	An acknowledgement by Approval Services that a specific chip card product has successfully completed testing.
Official Testing	In the context of this document, refers to testing conducted by a Laboratory with the intention of obtaining Visa approval of a card acceptance device.

## Visa Fleet Chip Terminals Testing and Approval Requirements

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Test Plan	See section <a href="#">Test Plans</a> for a list of test plans available from Approval Services.
Test Script	See section <a href="#">Commercial Test Tools and Test Scripts</a> for information about obtaining test scripts.
Test-cycle Submission	The initial submission of a card acceptance device for testing and, if the device fails testing initially, each subsequent submission for testing.
Testing Agreement	See <a href="#">Approval Services Testing Agreement</a> .
Visa Approval Services	Provides a single point of contact, both for vendors and for Visa personnel, on the Visa testing and approval process for card acceptance devices.
Visa Approval Services Questionnaire	A form that enables Approval Services to determine whether a device product is eligible for Visa testing and approval.
Visa Approval Services Testing Agreement	An agreement between Visa and the card manufacturer, device manufacturer, or chip supplier regarding testing and approval.
Visa Approved Products List	A listing of card acceptance devices that have passed testing and received approval as described in this document.
VFC	Visa Fleet Chip
Visa-recognized Laboratory	A laboratory that is recognized by Visa to test chip card products and devices in preparation for approval by Visa.

## Appendix D: Document History

Version	Date	Description
1.0	October 2016	1 <sup>st</sup> Release