



Chip Acceptance Device Questionnaire and Implementation Conformance Statement (ICS) for Contactless Devices and Readers

This form will not be accepted unless all mandatory fields are correctly completed. Mandatory fields are marked(*). You must provide a Chip Acceptance Device Questionnaire and Implementation Conformance Statement (ICS) for Contactless Devices and Readers for each product you are submitting for testing and approval. Information provided in this questionnaire will be used to determine whether the product is acceptable and the amount of testing.

For additional instructions, refer to attached Instructions for Chip Acceptance Device Questionnaire and Implementation Conformance Statement (ICS) for Contactless Devices and Readers.

Email completed questionnaire and product image to ApprovalServices@visa.com.

Section1 Company Information

*1.0 Company Name

Must match as indicated in Approval Services Testing Agreement

*1.1 Name of Authorized Representative

*1.2 Email Address

Must be corporate email address

*1.3 Submission Date

Must be the date you email to Approval Services

Section 2 Product Identification

*2.0 Visa Reference Number (VTF#)

*2.1 Product/Model Name and Version

*2.2 Submission Type

If you are changing an approved product or seeking to make a derivative, please provide additional details in 2.5.

2.3 Primary VTF#

If you are changing an approved product or seeking to make a derivative, please provide the VTF# of the approved product.

2.4 Secondary VTF#

If the same product model has been submitted and approved previously, please provide the VTF# of the approved product.

2.5 Product Submission Based on an Approved Product

For each proposed product change:

In column (A), identify the change location.

In column (B), select the appropriate change category based on the change location.

In column (C), describe the details of the proposed change to your product.

(A) Change Location

(B) Change Category

(C) Change Details

Section 3 Additional Information

Please provide any other relevant information not captured in other sections of the questionnaire.

Section 4 Product Elements Information

*4.0 Product Configuration

- *If Kernel resides on the terminal [only], complete Section 4.1.*
- *If Kernel resides on the reader [only], complete Section 4.2.*
- *If Kernel resides on multiple components, complete Sections 4.1, 4.2 and/or 4.3.*

4.1 Terminal Operating System Name and Version

4.2 Reader Operating System Name and Version

4.3 Server Operating System Name and Version

4.4 Product Sub-Configuration

Please refer to the user instructions at the end of the form to determine if the mPOS meets the exemption criteria.

The Letter of Approval (LOA) for the Vending Machine will indicate that the product can be deployed for use in vending machines only.

*4.5 Please provide a general description of the product.

Section 5 EMVCo Contactless Level 1 Information

Please provide a copy of Level 1 Letter of Approval at the time of submission of the Chip Card Acceptance Device Questionnaire and Implementation Conformance Statement.

*5.0 EMVCo Contactless Level 1 Approval Number

*5.1 EMVCo Contactless Level 1 Expiration Date

*5.2 Restricted Approval

YES

NO

Visa reserves the right to not honor an EMVCo restricted approval and may reject the product submission.

5.3 Reason for Restriction

*5.4 PCD Location

*5.5 Analog Firmware Name and Version

*5.6 Digital Firmware Name and Version

*5.7 Antenna ID

*5.8 Antenna Material

*5.9 Antenna Location

Section 6 Product Level 2 Information

Section 6A Visa Kernel Information

*6.0 Visa Kernel Name

*6.1 Visa Kernel Version

*6.2 Visa Kernel Code Location

Section 6B Visa Kernel Checksum

*6.3 Visa Kernel Overall Checksum

6.4 VCPS Kernel Checksum

6.5 VCTKS Kernel Checksum

Visa Kernel Overall Checksum must include all its components or software modules that make up the functionalities for VCPS or any of the supported Visa specification identified in Section 7, in which case:

- (1) Visa Kernel Overall Checksum must be specified in Q6.3.*
- (2) The individual checksum of each Visa Kernel component must be specific in Section 6C. Please refer to the user instructions at the end of this form for more details.*

Section 6C Visa Kernel Components (Distributed Kernel)

Please provide details below if Visa Kernel is split into multiple locations.

6.6 (A) Component Location	(B) Component Name	(C) Checksum Value
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Section 6D EMVCo C-8 Kernel Information

Please provide a copy of C-8 Letter of Approval at the time of submission of the Chip Card Acceptance Device Questionnaire and Implementation Conformance Statement.

6.7 EMVCo C-8 Approval Number

6.8 EMVCo C-8 Expiration Date

6.9 Restricted Approval	YES	NO
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Visa reserves the right to not honor an EMVCo restricted approval and may reject the product submission.

6.10 Reason for Restriction

6.11 Entry Point is included in EMVCo C-8 Approval	YES	NO
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Section 6E Pre-processing/Application Selection

*6.12 The product supports an independent module for Pre-processing/
Application Selection YES NO

Please provide details below if Pre-processing/Application Selection is a separate module from Visa and/or C-8 Kernels, refer to the user instructions at the end of this form for more details.

6.13 Pre-processing/Application Selection Name

6.14 Pre-processing/Application Selection Version

6.15 Pre-processing/Application Selection Location

6.16 Pre-processing/Application Selection Checksum

Section 6F Non-Visa Application Information

Please provide details below if the product contains a non-Visa application (excluding EMVCo C-8 and Entry Point) that interacts with Visa Kernel. Otherwise leave as blank.

Please refer to the user instructions at the end of this form for more details.

(A) Application Name	(B) Application Version	(C) Application Location	(D) Application Checksum	(E) Details of Interaction
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Section 7 EMV and Visa Specifications Information

Please select all Specification Versions supported

*7.0 EMVCo Contactless Level 1 Interface Specification

7.1 EMVCo Book C-8 Specification

7.2 EMVCo Entry Point Specification

7.3 Visa Contactless Payment Specification (VCPS)

7.4 Visa Contactless Transit Kernel Specification (VCTKS)

7.5 VCPS Reader Application Selection Specification

Device with contact and/or mag-stripe hardware that supports both VCPS and VCTKS shall not be implemented in the field as a VCTKS-only device.

Vendors shall resubmit without Contact and/or Mag-Stripe hardware for VCTKS-only device for a separate approval.

Test Laboratory

Select the Laboratory to test your product. For Contactless Level 1 and C-8 testing and approval, contact EMVCo directly.

*Test Laboratory

Please provide a picture of the device to Approval Services at the time of submission of the Chip Card Acceptance Device Questionnaire and Implementation Conformance Statement.

- Actual image of the product to be submitted.
- Drawings or blueprints are not acceptable.
- File naming convention: ProductImage_Product/Model Name_and_Version
- File type should be an image file format; must be clear and not pixelated.
- Contact and Magstripe Physical Interfaces should be clearly labeled.



Implementation Conformance Statement (ICS) for Contactless Devices and Readers

Section 1A - Additional Interfaces

- | | | |
|--|-----|----|
| *1.1 Is contact interface supported?
<i>If the Device has a contact reader or is connected to a contact reader, select YES.</i> | YES | NO |
| *1.2 Does the device support Magnetic Stripe transactions?
<i>If the Device has a Magnetic Stripe reader or is connected to a Magnetic Stripe reader, select YES.</i> | YES | NO |

Section 1B - Application Selection Implementation

This section shall be completed with only one specification selected as YES

- | | | |
|---|-----|----|
| *1.3 EMVCo Entry Point Specification is supported
<i>If 7.2 of Section 7 is selected, select YES.</i> | YES | NO |
| *1.4 VCPS Reader Application Selection Specification is supported
<i>If 7.5 of Section 7 is selected, select YES.</i> | YES | NO |
| *1.5 Visa Contactless Payment Specification (VCPS) is supported
<i>If both 7.2 and 7.5 of Section 7 are not selected, select YES</i> | YES | NO |

Section 1C - EMVCo C-8 Processing

- | | | |
|--|-----|----|
| *1.6 Does the device support EMVCo C-8 Processing? | YES | NO |
|--|-----|----|

Section 2 - VCPS Options

This section must be completed if device supports qVSDC and/or VCTKS

Application Paths Supported

- | | | |
|---|-----|----|
| *2.1 MSD Support
<i>If VCPS v2.2 or higher, select NO.</i> | YES | NO |
| *2.2 qVSDC Support
<i>A VCTKS-only device shall conform to mandatory qVSDC requirements.
Select YES.</i> | YES | NO |
| *2.3 Does the device support MSD and qVSDC active together?
<i>To be answered NO for VCPS v2.2.</i> | YES | NO |

qVSDC Options

- | | | |
|--|--|--|
| 2.4 Preliminary Transaction Processing is supported?
<i>If 2.4 is checked, 2.5, 2.10, 2.11, 2.12, 2.13 and 2.22 must be checked</i> | | |
| 2.5 Status Checking is supported? | | |
| 2.6 Key Revocation is supported? | | |
| 2.7 Exception File is supported? | | |

- 2.8 Signature is supported?
- 2.9 Online PIN is supported?
- 2.10 Contactless Floor Limit Check is supported?
- 2.11 Contactless Transaction Limit Check is supported?
- 2.12 Amount Authorized Zero Check is supported?
- 2.13 CVM Required Limit Check is support?
- 2.14 Terminal Floor Limit (Tag '9F1B') is supported?
- 2.15 Variable Transaction Amount is supported?
If 2.15 is checked, 2.4 must be checked.
- 2.16 Application Expiration Check is supported?
This option shall be checked if 2.23 and/or 2.26 are checked.
- 2.17 Issuer Update Processing is supported?
- 2.18 Manual Cash is supported?
 - 2.18.1 Independent Reader Risk Parameters used for Manual Cash?
If item 2.18.1 is checked, 2.18 must be checked
- 2.19 Cashback is supported?
 - 2.19.1 Independent Reader Risk Parameters used for Cashback?
If item 2.19.1 is checked, 2.19 must be checked
- 2.20 Refund is supported?
- 2.21 Dynamic Reader Limits is supported?
 - 2.21.1 Max Dynamic Reader Limit sets supported?
If maximum number is not defined or greater than 10, enter a value of 10.
- 2.22 Contactless Floor Limit data element is supported?
- 2.23 The device supports offline only?
- 2.24 The device supports online only?
- 2.25 Does the reader leave the contactless interface powered on when the contactless application not allowed indicator (or an equivalent indicator) is '1' for all reader supported applications?
If 1.3 is selected as YES, 2.25 shall be left unchecked

Checking this option indicates that the Reader powers on the contactless interface at the end of pre-processing when the Contactless Application Not Allowed Indicator (or equivalent indicator) is 1 for all Reader supported applications. Please refer to Req 5.37 in VCPS for details of the requirements related to this option.
- 2.26 The device supports both online capable and offline capable?
For a VCPS v2.1 device, only one of 2.23, 2.24 or 2.26 must be checked.
For a VCPS v2.2 device, at least one of 2.23, 2.24 or 2.26 must be checked. If more than one is checked, the implementation must allow switching between these features.

2.27 Is DF Name (tag 84) in SELECT PPSE response considered as Mandatory Data Element?

2.28 Is DF Name (tag 84) in SELECT ADF response considered as Mandatory Data Element?

Both 2.27 and 2.28 are applicable if item 1.5 is checked as supported

MSD Options

Section not applicable for VCPS v2.2.

2.29 Track 1 formatting to the host is supported?

2.30 Track 2 formatting to the host is supported?

2.31 Terminal Transaction Qualifiers are sent in online messages?

2.32 Zero Amount Authorized is supported?

Section 3 VCTKS Options

This section must be completed if VCTKS is supported.

3.1 Does the device power down the RF field in between transactions or when certain Status Words are returned (e.g. 6986 to GPO command)?

3.2 Is Key Revocation supported?

3.3 Exception File Check supported?

3.4 Additional IDs in POI information supported?

To be left unchecked for VCTKS v1.0.2

Section 4 General Reader Options

This section must be completed if display/printer or printing is supported.

4.1 The device supports a display?

This option shall be checked if the device is capable of providing cardholder messages/Amount Authorized/AOSA to a Software Development Kit (SDK), or other means (Applies to 4.1.1 and 4.1.2).

4.1.1 The Amount Authorized is displayed when prompting for card presentation?

4.1.2 The Available Offline Spending Amount can be displayed?

If item 4.2 is checked, 4.2.2 and/or 4.2.3 must be checked. If item 4.2.1 is checked, 4.2.2 and/or 4.2.3 must be checked.

4.2 The device supports printer or printing?

This option shall be checked if the device is capable of providing receipt data (minimally AID name)/AOSA to a SDK, or other means (Applies to 4.2.1 and 4.2.2 and 4.2.3).

4.2.1 The Available Offline Spending Amount can be printed?

4.2.2 Printing of a receipt for declined transactions supported?

4.2.3 Printing of a receipt for approved transactions supported?

4.3 The device recognizes dates ending 50 to 99 as 2050 to 2099?

Please refer to EMV Specification Bulletin No. 272 for implementation.

I confirm that the product details stated in the Questionnaire and ICS forms are accurate and that all ICS options supported by the Visa Kernel ("kernel") in the product have been identified.

Terms and Conditions

I am authorized to act on behalf of and legally bind the entity indicated in the Company Name field ("the Company") for whom I am submitting this form.

The Company and Visa are party to a Visa Approval Services Testing Agreement ("ASTA") and such ASTA is currently in effect. This submission is made pursuant to the ASTA and the Testing Requirements in effect as of the date of this submission.

To the extent that no ASTA is currently in effect, I acknowledge and agree on behalf of the Company that all information included in this form is disclosed to Visa and/or its employees, officers, directors, agents, representatives and/or separately incorporated regions or subsidiaries ("Visa Representatives") on a NON-CONFIDENTIAL BASIS and that Visa and the Visa Representatives shall have no obligation, express or implied, to maintain the secrecy, confidentiality or non-public nature of any such information.

Notwithstanding any provision of any agreement or other obligation to which the laboratories chosen in this form for testing of this product ("Test House") may be subject, the Company hereby consents to:

- i. The disclosure by the Test House to Visa of a copy of pertinent documents pertaining to testing (i.e. technical specifications, required submission forms, etc.) and test reports, generated following testing of the Company's product.
- ii. The presence of a representative of Visa, whose name will be provided to the Test House, during testing of the Company's product.
- iii. The confirmation or denial by the Test House of the content and accuracy of any test report submitted to Visa for product approval.
- iv. The disclosure by the Test House to Visa of scheduling information regarding test dates with the laboratory and timeframes of completion of testing.
- v. Granting Visa and its designees permission to test, copy, reverse engineer, by-pass intellectual property protection mechanisms, or perform any other action or process that Visa deems necessary in its sole discretion in order to determine if approval will be granted.
- vi. If any problems occur during functional or security testing that would not allow the chip product to successfully complete testing, I understand that:
 1. All official testing will stop.
 2. My company is responsible for all costs incurred with the Test House.
 3. The problem found in testing must be corrected if the product is going to be resubmitted for testing.

I acknowledge and accept the terms and conditions specified above.



Instructions for Chip Card Acceptance Device Questionnaire and Implementation Conformance Statement (ICS) for Contactless Devices and Readers

Chip Card Acceptance Device Questionnaire

Section 2 Product Identification

Q2.0 Visa Reference Number (VTF#)

Upon submission of the questionnaire, Approval Services will provide a Visa Reference Number.

Q2.2 Submission Type. If you are changing an approved product or seeking to make a derivative, please provide additional details in Q2.5.

(A) New Product: The product has never been submitted to Visa Approval Services.

(B) Derivative: The product is based on a previously approved product. Once approved, a secondary product is created, which will not replace the previously approved product.

EXAMPLE OF DERIVATIVE:

A new reader/terminal using the same Visa kernel approved in another product.

(C) Changing an Approved Product: The product is based on a previously approved product. Once approved, it will replace the previously approved product.

Section 4 Product Elements Information

Q4.0 Product Configuration

(A) PCDA (External Reader) / S-ICR

(B) PCDI (Internal Reader) / FIT

(C) PCDI (External Reader) / [Combination Reader or M-ICR]

Visa and EMVCo use several equivalent terms. Tables 1-3 below define the terms used in the answer selections for Q4.0:

Table 1 PCDA/S-ICR

Visa / EMVCo	Acronym	Description
Visa	PCDA	PCDA (Proximity Coupling Device with Application) is a contactless reader that supports the contactless interface and MSD and/or qVSDC application.
EMVCo	S-ICR	Single Component Intelligent Card Reader

Table 2 PCDI (Internal Reader) / FIT

Visa / EMVCo	Acronym	Description
Visa	PCDI (Internal Reader)	PCDI (Proximity Coupling Device Integrated - Internal Reader) is a device that supports VSDC, and/or MSD, and/or qVSDC application. It contains a contactless reader that supports the contactless interface.
EMVCo	FIT	Fully Integrated Terminal

Table 3 PCDI (External Reader) / [Combination Reader or M-ICR]

Visa / EMVCo	Acronym	Description
Visa	PCDI (External Reader)	PCDI (Proximity Coupling Device Integrated - External Reader) is a terminal with an external contactless reader. The device supports VSDC, and/or MSD, and/or qVSDC application.
EMVCo	[Combination Reader or M-ICR]	EMVCo divides these devices into two different types: (1) Combination Reader. The Visa Application resides on the terminal; the connected reader supports the Level 1 communications interface. (2) M-ICR (Multiple Component Intelligent Card Reader.) The Visa Application resides on both the terminal and the reader.

Definitions

The following Device Types are defined as:

Q4.4

Mobile Point-of-Sale Devices (mPOS)

A chip acceptance device that is physically connected to, or is itself, a mobile handset.

Variants

The following mPOS type qualifies for **Req 5.8** exemption based on Approval Services Announcement ASA20180730:

1. Dongle-type Contactless payment reader that is directly connected to a mobile handset without any cables or attachments.

Example: A Contactless reader plugged into a headset's audio jack.

The following mPOS types are required to conform to **Req 5.8** like other terminal types:

2. Portable Contactless payment reader with a small footprint.
Example: Tiny reader that can be integrated into a custom casing or user interface hardware like a tablet to create a mobile POS system.
3. Visa Mobile Contactless payment application or software on a mobile handset.
Example: A handset component like SD Card, SIM, etc.

Vending Devices

A chip acceptance device that is to be mounted on a Vending Machine. The device conforms to the physical dimensions prescribed by a national or international standards body.

Please refer to *Chip Card Acceptance Device Testing and Approval Requirements* available on Visa Digital Partner Services portal Library section, for additional information regarding submission requirements and procedures.



Section 6 Product Level 2 Information

Section 6A Visa Kernel:

The Visa Kernel ("kernel") is made up of all software components that provide for VCPS functionality (i.e. all requirements as defined in the VCPS specifications). This includes any modules that perform kernel functionality (i.e. crypto libraries for RSA/fDDA functions, etc.).

Pre-processing/Application Selection may be included in the Visa Kernel or outside the Visa Kernel as a separate module, but is still regarded as part of the overall kernel as such functionality is defined by VCPS.

Section 6B Visa Kernel Checksum:

The Visa Kernel Checksum ("checksum") must include at a minimum the Visa Kernel ("kernel") and all external libraries supporting kernel functionality. Pre-processing/Application Selection may be included in the checksum of the kernel or may have an independent checksum. If separate, the vendor is required to provide the checksum for the kernel and the checksum for the Pre-processing/Application Selection module. If only one checksum is provided, it is assumed Pre-processing/Application Selection is included in the Visa Kernel Checksum.

If the Visa Kernel is split into multiple locations (i.e. part on the reader, part on a server), each portion should have an independent checksum but the Kernel Checksum shall include all sub-portions of the kernel into the final checksum.

Section 6E Pre-processing/Application Selection:

Pre-processing/Application Selection module is referring to the Pre-processing/Application Selection functionalities as defined in either VCPS specification, VCPS Reader Application Selection specification, or EMVCo Entry Point specification.

Section 6F Non-Visa Application Information:

A non-Visa Kernel is defined as another kernel that is independent of the Visa Kernel. This may be another Payment System Kernel or proprietary kernel. The vendor only needs to declare a non-Visa Kernel in the CDQ if that kernel interacts with the Visa Kernel. Otherwise, such applications need not be declared.

Implementation Conformance Statement (ICS) for Contactless Devices and Readers

When completing the Implementation Conformance Statement (ICS) for Contactless Devices and Readers, please adhere to the following guidelines:

1. Your implementation shall always comply with a valid non-sunset Visa specification(s) (VCPS, VCTKS and/or Reader Application Selection).
2. You must select ICS options that represent the features that were developed in the submitted product.
3. You are responsible to ensure that you accurately submit test samples with the same features/configuration as indicated in the ICS options.
4. Products should always be developed to the specification and not the test plans.
5. Approval Services has the right to reject any ICS changes while in testing and require a new test cycle.