

22nd December 2022

ID Tech. Attn: George Jiang 10721 Walker Street, Cypress California 90630 USA

Approval Number: 41.APPLUS.IDTECH.KIOSKV.20221222-B

RE: Expresspay 4.1 Reader Certification Product Name: Kiosk V Firmware Version: Amex ExpressPay 4.1, v1.00 As Tested in: Kiosk V PCI certification details see Page 2

Dear George,

We are pleased to inform you that American Express has certified the **Kiosk V** for Expresspay 4.1 using Firmware Version **Amex ExpressPay 4.1, v1.00** with the waivers specified, based on the information provided below. This Expresspay 4.1 certification is valid for three years from the date of issuance.

The certification process addresses the acceptance of American Express Proximity Device capabilities.

Because the certification process cannot possibly test for every scenario, the discovery of any subsequent bugs or issues may require the correction and recertification of your software, firmware, and/or hardware.

Sincerely,

Maguire Gillen

Maguire Gillen Network and Acquirer Solutions American Express

If you have questions or for additional certification requests, please send an email to axp.contactless.terminal.support@aexp.com

Observations

PCI letter must be presented at L3 for certification

Expresspay 4.1.0 Contactless Reader Implementation Conformance Statement

Confidential and Trade Secret Materials

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Summary of Changes

Date	Version	Modification
June 2021	1.0.0	Baseline document – Expresspay 4.1.0

Contents

1.0	USING THIS DOCUMENT	6
1.1.	Purpose of the Document	6
1.2.	Out of Scope	6
1.3.	Audience	
1.4.	Reference Documents	6
1.5.	Organization of Document	
1.6.	Terminology and Conventions	7
2.0	IMPLEMENTATION CONFORMANCE STATEMENT	8
2.1.	Certification Information	8
2.2.	Product Information	
2.3.	Implementation Information	
2.3. 2.4.	Implementation Information	
	Implementation Information	

1.0 Using this document

1.1. Purpose of the Document

The purpose of this document is to capture the implementer specific options for contactless readers submitted for Expresspay contactless reader functional type approval. Readers are submitted for type approval to prove compliance with the functional requirements as defined in [SPEC].

1.2. Out of Scope

The following are considered out of scope of this document:

- Details of functional and technical requirements as specified in [SPEC].
- Details of the certification process as specified in [PROC].

1.3. Audience

The document is intended to be used by:

- American Express;
- Terminal vendors;
- Reader application developers;
- Test tool vendors;
- Expresspay accredited testing laboratories.

1.4. Reference Documents

The following references are cited by this document:

Reference	Document
[PROC]	Expresspay Terminal Level 2 Approval Process
[SPEC]	Expresspay Terminal Specification (Expresspay 4.0.x)

1.5. Organization of Document

This document is organised in three sections as follows:

- Certification Information asks about the product to be certified, previous certification of the kernel and contactless components and details of the vendor;
- Product Information asks general questions about the product to be certified and the architecture employed;
- Implementation Information asks detailed questions about the implementation of the Expresspay kernel within the product and support for optional features;
- Declaration.

1.6. Terminology and Conventions

In this document, the use of the words "shall" and "must" indicate mandatory requirements. Use of the words "should" or "advised" indicate recommendations and best practice guidelines.

2.0 Implementation Conformance Statement

2.1. Certification Information

Certification Request		
Product name	Kiosk V	
Product version If applicable.	Rev A	
Certification type	• New Kernel Certification	
	C Kernel Update (modifica	tion of previously certified kernel)
	C Device Update (using ur	modified previously certified kernel)
If this is a kernel or device existing Expresspay Level 2 product.	update, please provide the certification number for this	Must provide Baseline # N/A
If this is a device update, please provide details as to which components are different than those in the originally certified product		N/A

Vendor information							
Company legal name		IDTECH					
DBA If different from	legal name	2.					
Company addres	8 S		10721 Walker Street, Cypress, California 90630 USA				
						1	
Postcode	10721		City	City Cypress		State/province	California
Country	USA						
Primary contact's details		ails					
(This will be used for all Exp		ressp	ay contact	less reader type	approval comm	unication)	
First name	Georg		eorge		Last name	Jiang	
Title	Chief Technology Off		logy Officer				
Emailaddress	George.Jiang@idtechprodu		cts.com				
Telephone	Telephone +1-714		4-761-6	Fax +1-714-761-8880			
Company address 10721		21 Walker Street, Cypress California 90630 USA					

EMVCo Level 1 Certification details	
Version of EMV Contactless Protocol supported	Version 3.1, December 2020
Level 1 Approval number	177980322 31031a 31a BCTS
Date EMV Contactless Protocol certification received	March 3, 2022
If the reader has not yet received EMV Contactless Protocol certification, please provide the certification start date.	

2.2. Product Information

Product details	
Readertype	C Integrated reader
	• Intelligent reader
	C Transparent Reader
Operating System name and version	NuttX v10.2.0
Reader architecture	C Modular
	🕑 Non-Modular
mPOS Architecture	• Not applicable
(Please choose 'Not applicable' if reader is not mPOS)	C Accessory (mPOS-A)
	C Accessory with PIN entered on the COTS Device (mPOS-ASP)
	C Contactless Payment on COTS Device (mPOS-C)
	C Contactless Payment and PIN entered on COTS Device (mPOS-CSP)
	C Other - Please provide details in the next box
mPOS Architecture description	
(Please complete if 'Other' is selected in the previous box)	
Is the reader a Transit Access Terminal only?	C Yes
(For informational only. This is not applicable to mPOS)	🖸 No
Version number of the Expresspay kernel application to be certified	Amex ExpressPay 4.1, v1.00

Version number of any test application required for certification	CTLS Lab tool v1.00
Modular architecture detail	S ¹
(To be completed if the read	der employs a modular architecture.)
Terminal Architecture Name/ Identifier	
Modular Approval Number	
Checksum function output value for the Expresspay kernel, and any referenced libraries, to be certified	
Instructions for how to trigger the checksum function must be included with the completed ICS form.	

Proximity Coupling Device details (This is not applicable to mPOS-C or mPOS-CSP)		
PCDID	80185100	
A unique ID which identifies the PCD embedded in the product.		
PCD hardware name or model number	80185110	
PCD software name	80185120	
Software version	Rev A	

PIN Entry Device information (also applicable to mPOS-A)		
Is PIN entry supported?	C Yes 💿 No	
PED Details		
(Please complete if the rea mPOS-CSP)	der supports PIN entry device. This is not applicable to mPOS-C or	
PED Model name		
PED software version		

¹ Please note that filling in this section is not a request for Modular Label approval. A separate approval request form needs to be completed. Kindly contact your American Express representative for further information.

PED architecture	Standalone
	C Integrated with reader
	C Integrated with terminal

Test device details

(Additional information should be provided, if necessary, in the space provided at the end of this form.)

Reader serial numbers	234T968979, 234T968980, 234T968981
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2.3. Implementation Information

Where the reader is hard-coded to support, or not support, particular functionality, please check 'Yes' or 'No' as appropriate in answer to the questions below. Where the reader can be configured (without modification to the Expresspay kernel or any referenced libraries) to support, or not support, particular functionality, please check 'Configurable'. Readers which support such configuration are known as multi-configuration kernel readers. The inclusion of any 'Configurable' answers will identify your reader as being able to be configured to support a variety of implementation requirements from your customers. Your reader will be tested using a variety of configurations to ensure that it is certified for implementation in any of the potential configurations that result from its capabilities. This provides the greatest flexibility for you and your clients whilst providing American Express with the necessary confidence in the product.

Pre-Kernel processing	
Can the reader operate in Expresspay EMV Mode only?	□ Yes
Please choose 'Yes' if the reader is mPOS-C or mPOS-CSP or 'Configurable' for <u>ALL</u> other readers.	Configurable
'Yes' indicates that the reader is hardcoded to operate in EMV mode only . This will be the only supported transaction mode.	
'Configurable' means that the reader can be configured to operate in either EMV mode only or EMV and Magstripe Mode .	
Does the reader check it has an online connection during pre-processing	□ Yes
before activating the kernel?	🛛 No
Please choose 'Yes' if the reader is mPOS-C or mPOS-CSP or 'No' for <u>ALL</u> other readers.	
Does the reader detect it will be unable to go online during pre-PDOL	□ Yes
processing before starting a transaction?	🗆 No
	🛛 Configurable
Configurable unpredictable range for Expresspay Magstripe mode transactions	0 to <u>60</u>
Default UN range is 0 to 60.	□ Not applicable
Please complete only if the reader supports Expresspay Magstripe mode; otherwise, please check the "Not applicable" box.	

Contactless transaction types supported	
Are "Cash" transactions supported?	🛛 Yes
	□ No
	Configurable
	If the above answer is "Yes" or "Configurable", then which type of "Cash" transactions are supported:
	🖾 Domestic
	International

Are "Cashback" transactions supported?	🖾 Yes
	□ No
	If the above answer is "Yes" or "Configurable", then which type of "Cashback" transactions are supported:
	⊠ Domestic
	☑ International
Are "Goods and Services" transactions supported?	🖾 Yes
	□ No
	Configurable
	If the above answer is "Yes" or "Configurable", then which type of "Goods and Services" transactions are supported:
	🛛 Domestic
	International
Are "ATM" transactions supported?	□ Yes
Please choose 'No' for <u>ALL</u> mPOS readers.	□ No
	Configurable
	If the above answer is "Yes" or "Configurable", then which type of "ATM" transactions are supported:
	Domestic
	⊠ International
What type of operational control is supported by the	Operational Control:
Terminal?	Financial Institution
	Merchant
	Cardholder
Please specify the environment in which the Terminal	Environment:
will operate:	Attended
Please choose 'Attended' for <u>ALL</u> mPOS readers.	Unattended
Is the Terminal type "Offline only"?	□ Yes
Note : If the terminal type is "Offline with online	
capability", then the only valid options are either "No" or "Configurable"	Configurable
Please choose 'No' if the reader is mPOS-C or mPOS-CSP.	

Is the Terminal type "Online only"?	□ Yes
Note : If the terminal type is "Offline with online capability", then the only valid options are either "No"	□ No
or "Configurable"	Configurable
Please choose 'Yes' if the reader is mPOS-C or mPOS-CSP.	

Other Interfaces supported

m

Does the reader support the AEIPS contact interface?	□ Yes
Please choose 'No' if the reader is mPOS-C or mPOS-	🖾 No
CSP.	Configurable

Transaction Processing Capability	
Is the reader capable of processing transactions with Delayed Authorization? Please choose 'No' if the reader is mPOS-C or mPOS- CSP.	□ Yes □ No ⊠ Configurable
Is the reader capable of displaying, printing or communicating the TVR to the test tool after the GENAC1 command is completed during a Magstripe Mode transaction? Please choose 'No' for mPOS-C or mPOS-CSP readers.	⊠ Yes □ No

Offline data authentication	
Expresspay requires that all Terminals must support SDA. The enablement of SDA support must be configurable for deployment.	Configurable
Please confirm that this is the case by checking the 'Configurable' checkbox.	
Expresspay requires that all Terminals must support CDA. The enablement of CDA support must be configurable for deployment.	Configurable
Please confirm that this is the case by checking the 'Configurable' checkbox.	
What is the maximum length of CA public key supported by the reader?	<u>2048</u> bits
Does the reader support revocation of an installed CA public key without the key's removal?	🖾 Yes
	□ No
	Configurable

Does the reader detect CDA failure during Issuer or ICC	Yes
public key recovery prior to the First Terminal Action Analysis?	□ No
5	Configurable

Processing Restrictions	
Is Dynamic Reader Limits functionality implemented	🛛 Yes
and configurable for use?	□ No
Please choose 'No' if the reader is mPOS-C or mPOS-	
CSP or 'Yes' for all other readers.	
Is exception list processing supported?	🖾 Yes
	□ No

Cardholder verification	
Does the reader support Online PIN as a CV method?	□ No
If supported, the enablement of Online PIN capability must be configurable at deployment.	Configurable
Please choose 'No' if the reader is mPOS-C and 'Configurable' for all the other readers.	
The reader must be able to support Signature CVM as a CV method. The enablement of Signature CVM capability must be configurable at deployment.	Configurable
Please confirm that this is the case by checking the 'Configurable' checkbox.	
The reader must be able to support Mobile CVM as a CV method. The enablement of Mobile CVM capability must be configurable at deployment.	Configurable
Please confirm that this is the case by checking the 'Configurable' checkbox.	
The reader must support a configurable deactivation	🖾 Yes
timer for when restarting transactions due to Mobile CVM failure. The default value of this timer shall be 1.5 seconds.	□ Not applicable
Please choose 'Not applicable' for mPOS-C or mPOS- CSP or choose 'Yes' for all other readers.	
Is the reader exempt from No CVM checks?	□ Yes
Please choose 'No' if the reader is mPOS-C or mPOS-	□ No
CSP.	Configurable

Printing or emailing receipts	
Is the reader connected to a terminal with a printing capability or, in the case of mPOS terminals, can provide	Yes
electronic receipts via email or an alternative method?	□ No
Note: This is mandatory for an integrated reader.	
Is the printing or displaying/emailing of Terminal	🛛 Yes
Verification Results supported?	□ No
Is the printing or displaying/emailing of Authorisation	🛛 Yes
Response Codes supported?	□ No
Does the reader support Cardmember display messages?	🛛 Yes
	□ No

Membership-Related Data Processing	
Does the reader support membership-related data	Yes
processing?	□ No
	🛛 Configurable

3.0 Declaration

I confirm that all of the information I have provided, in answer to the questions on this form, is correct and complete.

Please confirm that the terminal does not support random transaction selection or velocity checking for Expresspay transactions.		Confirmed
Please confirm that all terminal data elements and all card public data elements can be retrieved from the kernel.		Confirmed
Please confirm that any data elements that can be retrieved from the kernel are not filtered.		Confirmed
Name	George Jiang@idtechproducts.com	
Title	Chief Technology Officer	
Signature	George Jiang	
Date	2022.12.5	
Modular Architecture Declaration ² (To be completed if the reader employs a modular architecture)		
Please confirm that the terminal architecture identified above is structured using self- contained modules that can be updated independently.		□ Confirmed □ Not Confirmed
Please confirm that the terminal architecture identified above is capable of calculating a unique checksum value over the Expresspay kernel and any external libraries utilised in the processing of Expresspay transactions.		ConfirmedNot Confirmed
Please confirm that the configuration of a terminal implementing the architecture identified above can be modified without the need for re-compilation of the Expresspay kernel or any external libraries utilised in the processing of Expresspay transactions.		□ Confirmed □ Not Confirmed
Please confirm that you have supplied design documentation in a companiment with this form which correctly and completely describes the structure and interfaces of the terminal architecture identified above.		□ Confirmed □ Not Confirmed
Please confirm that all products listed above implement the same terminal architecture as described in the accompanying design documentation.		□ Confirmed □ Not Confirmed

² Please note that filling in this section is not a request for Modular Label approval. A separate approval request form needs to be completed. Kindly contact your American Express representative for further information.

3.1. Additional Information

~ End of Document ~