

D-PAS Terminal End-to-End Letter Of Certification

TSYS Acquiring Solutions
 Project ID: E2E_20151218_201601023
 8320 S. Hardy Dr.
 Tempe, AZ 85284

October 10, 2017

This letter confirms that the following D-Payment Application Specification (D-PAS) certification tests, identified in the Certification Request Form, were executed successfully with the Terminals and host system operated by TSYS Acquiring Solutions supporting payment card acceptance.

D-Payment Application Specification (D-PAS) Terminal End-to-End Certification is the process used to confirm that the types of terminals that are supported by the Acquirer/Merchant as indicated below (“Terminals”) can accept [D-PAS card/contact/contactless] transactions and that such terminals have the ability to send and receive authorization requests and responses for D-PAS card transactions to and from the Acquirer/Merchant’s host. The test also confirms the capability of such Terminals to perform functions supporting chip card acceptance for D-PAS card transactions including support of fallback transactions and card verification methods supported by the Terminal.

The following waivers were granted as part of D-PAS Terminal End-to-End Certification:

Test Case Excluded	Rationale	Waiver Reference Number and Expiration Date
E2E_35	Issue: Point of sale entry mode (DE22 pos 1-2) seen in transaction is '85', indicating chip fallback. The expected value is '02' indicating magstripe. Result: pass with waiver. Comment: Wavier granted until 10/31/2017 - at this time TSYS Host fix to address this issue should be in place.	E2E_20151218_201601023_W1 valid until 10/31/2017

Test cases assigned as a condition of D-PAS Terminal End-to-End Certification are listed in the Certification test cases communicated during the Certification process.

Service Information	
Certification Type	Full Certification <input checked="" type="checkbox"/> Recertification <input type="checkbox"/>
If Recertification, Reason for Testing	
Reference to Project ID of the original D-PAS certification (if applicable)	
Certification Scope	Contact <input checked="" type="checkbox"/> Contactless <input checked="" type="checkbox"/>
Form Factor	Contact <input checked="" type="checkbox"/> Contactless <input checked="" type="checkbox"/>
Terminal Manufacturer	Ingenico
Terminal Model	IPP320
Payment Application Software + Version Number	RBA 1903B3
D-PAS Terminal E2E Qualified Test Tool	UL Brand Test Tool & SmartLink Box/SmartWave Box
D-PAS Test Plan(s)	Contact: v1.4, Contactless: v1.2
Service Provider	Underwriters Laboratories Inc.

CERTIFICATION CONDITIONS

General Conditions

End-to-End Terminal Certification tests validate that the system operated by the Acquirer/Merchant, its components and the Terminal types listed above had the ability, at the time of Certification, to support transactions with D-PAS cards. End-to-End Terminal Certification does not cover the internal operation or functional abilities of any systems, software or hardware operated by the Acquirer/Merchant including as necessary to support card acceptance and, as such, should not be implied or inferred. This Certification shall not limit or modify any other agreements between Acquirer/Merchant and Discover Network, the terms of which shall remain in full force and effect. The confidentiality obligations set forth in such agreements shall apply to this Letter and any related written and verbal communication.

Waivers or Test Case Exclusions may be granted during the course of completing End-to-End Terminal Certification. However, such Waivers and Test Case Exclusions are applicable only to the End-to-End terminal Certification requirements and do not release the Acquirer/Merchant from any other compliance requirements.

Please contact your D-PAS Deployment Manager if any of the information in this Letter is incorrect.

Regards,

Discover Network



Discover Network Acquirer Terminal End-to-End Certification Request Form

DN v7.2

Instructions: Complete this form for each unique combination of terminal kernel, payment application, and terminal-to-acquirer interface.
 *Note: The information submitted on this form will determine the test cases assigned during certification.

Discover Network Acquirer Terminal End-to-End Certification is required when one or combination of the following events occurs:

- New EMV Kernel
- Change/update to an existing EMV kernel
- New payment application
- Change/update to a payment application impacting chip card processing
- Change involving peripheral equipment impacting chip card processing (example: signature pad, pin-pad, reader).

The coloring of the cells indicate when the cells should be filled out:

- **No Color** = to be filled out
- **grey** = to be left empty
- **blue** = optional/conditional
- **red** = wrongly filled out
- **green** = acceptable value
- **orange** = unexpected value

Customer Information (to be presented on Letter of Certification)

Customer Name	TSYS Acquiring Solutions
Customer Type	Acquirer/Processor
Platform Name (if applicable)	
Merchant 1	
Merchant 2	
VAR/Gateway 1	Cloud9 Payment Gateway
VAR/Gateway 2	
DFS Acquirer/ Merchant ID	
Account ID	
Contact Name	Greg Maas
Email address of contact person	Gmaas@tsys.com
Address of contact person	8320 S. Hardy Dr.
City	Tempe
Zip Code	85284
Country/Region	United States
State	Arizona
Telephone number	480 333 7915
Date	March 3, 2017

Certification Scope

Is DPAS Contact in scope for this certification?	Yes
Is DPAS Contactless in scope for this certification?	Yes

Service Information

Certification Type	Initial Certification
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Recertification Type	
Reason for Recertification	
Other reason for Recertification	
Discover Terminal E2E Certification Type	New Certification
Location of Terminal Deployment (1)	United States
Location of Terminal Deployment (2)	
Terminal Type	Attended POS
Is this a Standard EMV or Discover Quick Chip certification?	Discover Quick Chip
Transaction type supported - Sale	Yes
Transaction type supported - Cash Over	No
Transaction type supported - Cash Advance or Quasi Advance	No
Transaction type supported - Reversal	Yes
Transaction type supported - Pre-Authorization	Yes
Transaction type supported - PIN Management	No
Transaction type supported - Other	
Terminal Manufacturer	Ingenico
Terminal Manufacturer - Other	
Terminal model	IPP320
D-PAS Terminal E2E qualified test tool	UL Brand Test Tool & SmartLink Box/SmartWave Box
Contact D-PAS Test Plan Release Version	v1.4
Contactless D-PAS Test Plan Release Version	v1.2
Total number of terminals to be deployed	5000
Total number of terminals in market today	200
Is terminal model still being purchased/deployed or is it an older "legacy" model?	Still deployed
DFS Physical Test Plastics to be used?	No
D-PAS Chip Card Simulator available for testing?	Yes
Expansion Certification Type	
Discover Debit	
JCB	
UnionPay	
Discover Quick Chip	
Contact Online PIN Support	
Contactless Online PIN Support	
Contact D-PAS Kernel Functional Approval	
EMVCo Contact L1 approval number	12348 0210 400 20 FIM
EMVCo Contact L1 renewal date	February 2, 2018
EMVCo Contact L2 approval number	2-03498-1-1C-UTS-0416-4.3.e
EMVCo Contact L2 renewal date	April 6, 2019

Payment Application software name + version	RBA 1903B3
Contactless D-PAS Kernel Functional Approval	
EMVCo Contactless L1 approval number	10485 1015 231 231b 231a CEM
EMVCo Contactless L1 renewal date	October 2, 2019
Terminal product has an approved D-PAS Contactless kernel?	Yes
D-PAS Contactless kernel approval expiration date	October 24, 2017
Terminal Configuration	
Does terminal have a PIN Pad?	Yes
PIN Bypass Allowed?	Yes
Does terminal have the ability to print receipts?	No
Does terminal have a combined magnetic stripe and chip reader?	No
Can the terminal force a transaction online?	Yes
Is the terminal configured to allow the merchant to force acceptance (override a decline)?	Yes
Is the terminal located at an unattended gas/petrol station?	No
Is Application Selection Flag (ASF) supported?	No
List all Application IDs (AIDs) supported	A0000001523010, A0000000651010, A0000003241010
Card Data Input Supported	
Contact DPAS support	Yes
Contactless DPAS support	Yes
Discover Common Debit AID support	No
Diners BINs Supported (Discover Terminals)	Yes
JCB Transactions Supported	Yes
UnionPay Transaction Supported	No
IC Contact Chip	Yes
Magnetic Stripe	Yes
Manual Key Entry	Yes
Magstripe Contactless Chip	Yes
IC Contactless Chip	Yes
Other	
Offline Data Authentication Supported (on contact interface)	
SDA	Yes
DDA	Yes
CDA	Yes
CDA Mode	Request CDA on ARQC and Request CDA on 2nd GENAC TC
Cardholder Verification Methods Supported (on contact interface)	
Offline Plaintext PIN	Yes

Offline Enciphered PIN	Yes
Online PIN	Yes
Signature	No
No CVM	Yes
Cardholder Verification Methods Supported (on contactless interface)	
Online PIN	Yes
Signature	No
No CVM	Yes
Consumer Device CVM Supported	Yes
Terminal Action Code (TAC) Values (on contact interface)	
Denial TAC Values	0010000000
Online TAC Values	30E09CF800
Default TAC Values	1000002000
Fallback to Magnetic Stripe Modes Supported	
Application Not Found	Yes
Chip Read Error	Yes
Blocked Card	No
Blocked Application	No
How many tries are required before fallback is allowed?	1
MPOS Specific Configuration	
MPOS Device type	
PCI PTS certified Pin Entry Device	
PCI Approval number	
PCI PTS Version number (version number should 3.0 at least)	
SRED (Secure read and exchange of data) enabled?	
PCI P2PE (Point to point encryption) certified?	
Mobile device operating system	
Contact D-PAS Specific Configuration	
Is this an offline or online terminal on the contact interface?	Online authorization only
Terminal floor limit for D-PAS contact chip card transactions	\$0.00
Directory Method (PSE selection)	Yes
Cardholder Confirmation	Yes
Cardholder Selection	No
Contactless D-PAS Specific Configuration	
Is this an offline or online terminal on the contactless interface?	Online authorization only
Contactless D-PAS EMV is supported?	Yes
Contactless MS mode (ZIP) AID configured?	Yes
CDA Supported on contactless D-PAS interface	Yes

AVN (Application Version Number) checking is supported?	Yes
Issuer scripting supported?	Yes
Reader Contactless CVM Limit	\$0.00
Reader Contactless Floor Limit	\$0.00
Reader Contactless Transaction Limit	\$10,000.00