

Thursday, October 20, 2016

911 Software, Inc.  
265 S. Federal Hwy #353  
Deerfield beach, FL 33441

Dear Zorrik Voldman:

Heartland Payment Systems is pleased to issue this **Certification Letter** for the following application processing on the HPS Exchange platform through the **Portico** gateway.

Integration Type: Fully Integrated  
POS Application Name: Cloud9 vTerminal  
POS Application Version: v1.1  
Middleware Name: Cloud9 Payment Gateway API  
Middleware Version: v1.1  
Peripheral Model: iPP320  
Peripheral Software Name: RBA  
Peripheral Software Version: 18.04B3  
Gateway Name: Cloud9 Payment Gateway  
Gateway Version: 1.1  
EMV Parameter Configuration Name: Cloud9

Protocol: IP - single-trans.  
Stack: TLS 1.2  
Voltage: No

#### Contact Kernel Info

EMV Kernel Name: EMVDC version 4.67  
EMVCo Level 1 - Expiry Date: 12348 0210 400 20 FIM - 2/2/2018  
EMVCo Level 2 - Expiry Date: 2-02779-1-1C-UTS-0314-4.3.c - 2/28/2017  
Applicable Brands: Visa, MC, Discover, AmEx  
Environment: Attended  
Communication: Offline w/ Online Capability  
Operational Control: Merchant

#### General

Features: MasterCard Card Acceptor Terminal ID  
Industry: Lodging.  
Card Types: Visa, MasterCard, Discover, JCB, American Express

Tran Types: Card Verify (by Account)  
Credit Sale (swiped)  
Credit Sale (manual entry card-present)  
Credit Sale (manual entry card-not-present)  
Credit Authorization (swiped)  
Credit Authorization (manual entry card-present)  
Credit Authorization (manual entry card-not-present)  
Card Security Code (CVV2, CVC2, CID)  
Contactless (PayWave, PayPass, ExpressPay, Zip)  
Credit Partial Approval  
Level II Corporate Purchase Cards  
Offline Forced Purchase (Voice Auth)

Credit Return (by track data)  
Credit Return (by TxnID)  
Credit Online Void  
Debit Purchase (with Cash Back)  
Debit Partial Approval  
Debit Purchase Reversal  
Debit Return

Lodging

Features: Advanced Deposit  
No Show  
Visa Prestigious Property  
MasterCard Preferred Customer  
Extra Charges  
Incremental Authorization

## EMV Parameter Sheet

ICC Reader: **INGENICO iPP320**

L2 Configuration: **2-02779-1-1C-UTS-0314-4.3.c**

Card Data Input Capability		Data Authentication	
Terminal Type	22	MAX CA Public Key	248
Manual Key Entry	Yes	Exponents	3 & 2 <sup>16</sup> +1
Magnetic Stripe	Yes	Revocation of Issuer PK Certificate	Yes
IC with Contacts	Yes	Certificate Revocation List Format	RID/Idx/Ser
<b>CVM Capability</b>		Default DDOL	Yes
Plaintext PIN	Yes	Manual act. when CA PK loading fails	No
Online Enciphered PIN	Yes	CA PK verified with check sum	Yes
Signature (Paper)	Yes	<b>Cardholder Verification Method</b>	
Offline Enciphered PIN	Yes	Bypass PIN Entry	Yes
No CVM	Yes	Subsequent Bypass PIN Entry	No
<b>Security Capability</b>		Get Data for PIN Try Counter	Yes
SDA	Yes	Fail CVM	Yes
DDA	Yes	Amount known before CVM process.	Yes
Card Capture	No	<b>Terminal Risk Management</b>	
CDA	Mode 1	Floor Limit Checking	Yes
<b>Transaction Type Capability</b>		Random Transaction Selection	Yes
Tran Type - Cash	Yes	Velocity Checking	Yes
Tran Type - Goods	Yes	Transaction Log	Yes
Tran Type - Services	Yes	Exception File	Yes
Tran Type - Cash Back	Yes	TRM irrespective of AIP setting	Yes
Tran Type - Inquiry	No	<b>Terminal Action Analysis</b>	
Tran Type - Transfer	No	Terminal Action Codes supported	Yes
Tran Type - Payment	No	TAC can be changed	Yes
Tran Type - Admin	No	TAC can be deleted or disabled	No
Tran Type - Cash Deposit	No	How does offline only Terminal process Default Action Codes?	No
		How does online only terminal process TAC/IAC-Default when unable to go online?	No
<b>Terminal Data Input Capability</b>			
Keypad	Yes	CDA failure detected prior TA Analysis	Yes
Numeric Keys	Yes	<b>Completion Processing</b>	
Alpha & Special Character Keys	Yes	Forced Online	Yes
Command Keys	Yes	Forced Acceptance	Yes
Function Keys	Yes	Advices	Yes

<b>Terminal Data Output Capability</b>		Issuer Referrals	Yes
Print, Attendant	Yes	Batch Data Capture	Yes
Print, Cardholder	No	Online Data Capture	Yes
Display, Attendant	Yes	Default TDOL	Yes
Display, Cardholder	No	<b>Exception Handling</b>	
Code Table 10	No	POS Entry Mode	80
Code Table 9	No	<b>Miscellaneous</b>	
Code Table 8	No	PIN Pad	No
Code Table 7	No	Amount and PIN on same keypad	Yes
Code Table 6	No	ICC/Magstripe Reader Combined	No
Code Table 5	No	If Combined, is Magstripe read first?	No
Code Table 4	No	Supports account type selection	Yes
Code Table 3	No	Supports 'on fly' script processing	No
Code Table 2	No	Issuer Script device limit > 128 bytes	Yes
Code Table 1	Yes	If limit > 128, value supported?	1024
<b>Application Selection</b>		Internal Date Management	Yes
PSE	Yes		
Cardholder Confirmation	Yes		
Preferred display order	No		
Partial AID Selection	Yes		
Multi language	Yes		
EMV Language Selection Method	Yes		
Common Character Set	Yes		

The certification performed is a limited test and it remains the responsibility of 911 Software, Inc. to ensure all current and future data elements are supplied for Interchange compliance. 911 Software, Inc. must also ensure the "full and unaltered contents" of the magnetic stripe are transmitted in each electronic authorization request message for all card types, and that the contents of the magnetic stripe are not retained in their entirety in memory, logs, databases, or files after the authorization is complete. 911 Software, Inc. is responsible for ensuring its software applications do not invalidate the merchant's ability to be PCI compliant. 911 Software, Inc. is responsible for maintaining its software application's compliance with current PCI/PA-DSS specifications which can be found at [www.pcisecuritystandards.org](http://www.pcisecuritystandards.org).

The Heartland Service Center is comprised of dedicated teams broken out by geographical regions that provide service for beta and production merchants. Support is available 24 hours per day, including holidays and weekends. For technical assistance during your beta period, please contact (888) 963-3600 for any assistance.

Please note: You must recertify the application software if modifications are made to the payment application/module or component that is processing to the certified interface.

For any questions regarding this certification letter, please email me at: [Julio.Arellano@e-hps.com](mailto:Julio.Arellano@e-hps.com)

<b>Heartland Internal Use Only:</b>	
<b>Developer ID/Version Number:</b>	002914/1488
<b>SWAT Project#:</b>	B600

Regards,

*Julio C. Arellano*  
Sr. POS Integrations Analyst