Feature Focus Guide: EMV Moneris

Core Product: Aloha Quick Service, Aloha Table Service, Aloha EDC Last Updated: June 12, 2024

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Revision Record

Date	Version #	Description
Prior to	v15.1+	Feature Focus Guide created for implementation.
01/19/2023	v19.3	Added the ability to combine the first voucher with the guest check to reduce the number of vouchers printed and save paper.
01/19/2023		Converted the document to use new templates. Updated front cover and back page to reflect new NCR branding.
06/12/2024		Updated document to reflect NCR Voyix branding.



About EMV Moneris

EMV Moneris at a Glance	
Core Product	Aloha® Quick Service, Aloha Table Service, Aloha EDC
Complementary Products?	Yes, the Ingenico iPP320 PIN Pad Device v2.10.
Separate License Required?	No
Other References	Aloha Quick Service Manager Guide, Aloha Quick Service Reference Guide, Aloha Table Service Manager Guide, Aloha Table Service Reference Guide

EMV (Europay, MasterCard, and Visa), offered with Aloha[®] Quick Service and Table Service, is a technical standard for a chip-based payment technology where consumers use payment cards embedded with a smart 'chip' to connect to an EMV-enabled device, such as the Ingenico iPP320, and execute payment using dynamic authentication. Because the data is dynamic, not static like traditional magnetic stripe cards, duplicating one of these credit or debit cards is very difficult, reducing data security fraud around the world.



Figure 1 Chip/Smart Card Example

Consumers either insert their card (contact) into or tap their card (contactless) on an EMV-enabled device and then enter a personal identification number (PIN) or provide a signature for authorization. These cards also come equipped with the traditional embossed number and magnetic stripe for use as a fallback in the event the EMV-enabled device fails to read the chip. NCR Voyix is working



directly with the major processors to implement a multi-payment type solution that supports EMV as well as the traditional magnetic stripe.



Figure 2 Inserting the Chip Card

The support of EMV is mandatory for sites in Canada, and, we currently support EMV only for use in Canada. Effective with Aloha Electronic Draft Capture (EDC) v14.2, you can directly process EMV cards in Canada through the Moneris processor. Moneris, the largest processor in Canada, supports the following EMV card types on the Ingenico iPP320 PIN pad device using the Moneris solution:

- Visa®
- MasterCard®
- American Express®
- JCB
- Interac®

The Aloha POS terminals also offer redundancy, but only as a backup method with the required POS access level. You can slide or manually enter the following cards on the POS terminal:

- Visa
- MasterCard
- American Express
- Discover®
- JCB



For example, if the device cannot read the chip, the employee with the appropriate POS access level can slide the card using the magnetic stripe reader (MSR). If the MSR fails to read the magnetic stripe, the employee has the ability to manually enter the card number.

Note

As of this writing, the Ingenico iPP320 PIN pad device does not support gift card payments; Discover EMV is also not supported.

How does the use of EMV improve payment security?

EMV-chip-based solutions have been successful in reducing data security fraud around the world. Traditional magnetic stripe cards contain static data on the back of each card. This static data can easily be duplicated using low cost equipment that is readily available for purchase on the Internet. Once duplicated, a criminal can use the copied card to commit fraud anywhere in the world that accepts the specific brand of credit card. EMV differs as it uses a program in the chip on the card. The program allows for dynamic information to pass through with each payment transaction. Because the data is dynamic and not static, duplication of any one card is very difficult. Strong encryption and other security measures have made EMV much more secure; however, if a merchant has a properly configured POS solution and is meeting or exceeding PCI DSS requirements, the added security of EMV will only provide a marginal improvement in the overall security of your payment data.

Software requirements

You must use Aloha Configuration Center (CFC) or Aloha Manager v15.1 or later and Aloha EDC v14.2 or later, to take advantage of EMV technology. You must also use Aloha Table Service v15.1 or later, or Aloha Quick Service v15.1 or later. Use the proper steps to upgrade CFC or Aloha Manager and EDC, including settling all outstanding batches prior to upgrading and performing the necessary configuration.

Hardware requirements

Aloha EDC supports the Ingenico iPP320 PIN pad device v2.10, which is a tethered PIN pad device connected to the Aloha point of sale (POS) terminals using a universal serial bus (USB) cable. The Ingenico iPP320 PIN pad device supports EMV requirements through the Moneris solution.

Aloha Table Service and Aloha Quick Service support up to two PIN pad devices per Aloha POS terminal; providing a faster way to process EMV transactions.

You must develop a plan to deploy the Ingenico iPP320 PIN pad devices. Determine how many Ingenico iPP320 PIN pad devices with the Moneris solution to install. If you are using only one PIN



pad device per POS terminal, you can use a serial cable. If you are using two PIN pad devices per POS terminal, you must use a USB converter cable.



Figure 3 USB Converter Cable

Contact Moneris to:

- Set up EMV on your merchant account.
- Request the Ingenico iPP320 v2.10 PIN pad devices.
- Obtain unique terminal IDs (TIDs) for each PIN pad device, each POS terminal, and one for the Aloha EDC Back-of-House (BOH).



Card brand mandates

Due to card brand mandates, to use Moneris, you must have a terminal ID for the Back-of-House (BOH), terminal, and PIN pad device.



Figure 4 Terminal ID Example

For example, the Aloha Café decides to support EMV using Moneris. The restaurant has four POS terminals and obtains eight Ingenico iPP320 PIN pad devices installed with the Moneris solution; two for each POS terminal. The Aloha Café must obtain a total of 13 terminal ID numbers.

Internet service

Aloha EDC defaults to secure socket layer (SSL) as the primary communication method with Moneris; however EDC also supports a dial-up connection with the processor as a redundancy feature. You can use a dial-up connection as the primary connection, if necessary. If you configure both SSL and dial-up, EDC uses SSL to communicate with Moneris; if this connection fails, EDC uses dial-up.

Partial approvals

You can partially approve pre-paid cards, and the remaining balance prints on the customer copy voucher.

Pre-paid cards

Moneris supports pre-paid cards. When a guest uses a pre-paid card, any remaining balance appears on the Front-of-House (FOH).

Real-time reversals

Moneris supports real-time reversals for both timeouts and voids.



Supporting cardholder verification

Moneris supports cardholder verification through address verification (AVS) using the ZIP code of the cardholder, and the card validation of the three-digit security code located on the back of the payment card. AVS response codes are available in the Appendix of this document.



Configuring Ingenico iPP320 PIN pad devices

Configuring an Ingenico iPP320 PIN pad device is a multi-step process. First, you must install the Ingenico iPP350 USB driver; then attach the devices to the POS terminal. You must also initialize the Ingenico iPP320 PIN pad devices prior to first use.

Installing the Ingenico iPP320 device driver

You must install the drivers on each terminal to which you attach an Ingenico iPP320 PIN pad device.

To install the drivers:

1. Open and log in to the **web site**: <u>https://www.radiantupdate.com</u>.



Figure 5 HSR Hospitality Updates

2. Click **Download Install CD** on the menu.





Figure 6 Application Suite

3. Select **PIN Pad** from the 'Application Suite' drop-down list.

ome	Download Install CD
earch	This page allows authorized users to download uploaded images.
ownload Update	*Application Suite
loha Suite Installer atistics	Major Version Ingenico IPP350 USB Driver •
elp ign Out	Download ImageTitle Release Date File Size (MB) Dewnload New Ingenico IPP350 UsbDivinstall zip08/12/2016 0.00

Figure 7 Selecting PIN Pad Device

- 4. Select Ingenico iPP350 USB Driver from the 'Major Version' drop-down list.
- 5. Click **Download Now** to download the Ingenico iPP350 UsbDrvInstall.zip file. This driver works for both the iPP320 and iPP350 PIN pad devices.



When the download is complete, the following screen appears:

Ð	(🖿	I 🗎	۱ 🗢 🛃	WinZip - In	genico iPP35	0 UsbDrvIn	istall.zip						-		×
Fi	le 👘	Unzip	Edit	Share	Backup	Tools	Settings	View H	elp Upgrade					~	
ß	F														
Purc	ण :hase R														
1	WinZi							Туре	Modified	Size	Ratio	Packed	Path		
		bDrvinsta	ll.exe					Application	6/24/2011 1:54 PM	725,099	3%	700,479			
		berringed	incore .					Application	0/24/2011 1.041101			100,415			
														2	5
															2
															٢.
															H
		les, 0 byte						Total 1 file, 70						😢 🔵 🤅	

Figure 8 WinZip Exe File

6. Double-click **UsbDrvInstall.exe** to open the file.

		t to allow this app from an unknown make changes to your PC?
	Program name: Publisher: File origin:	UsbDrvInstall.exe Unknown Hard drive on this computer
e) si	how <u>d</u> etails	Yes No

Figure 9 User Account Control Dialog Box

7. Click **Yes** on the 'User Account Control' dialog box to begin installing the USB driver.





Figure 10 UsbDrvInstall Setup Wizard

8. Click Next.

etup - UsbDrvInstall		_	
elect Destination Location			
Where should UsbDrvInstall be in	stalled?		0
Setup will install UsbDrvi	Install into <mark>the</mark> following folder.		
To continue, click Next. If you we	uld like to select a different fold	der, <mark>clic</mark> k Brows	se.
C:\Program Files (x86)\Ingeni	co\IngenicoUSBDrivers	Brow	vse
At least 2.0 MB of free disk space	is required.		

Figure 11 Designating Folder Location

9. Click **Browse** to select a different folder in which to install the driver, or click **Next** to accept the current folder location.



🚽 S	etup - UsbDrvInstall —	_	
R	eady to Install	Ĩ	~
	Setup is now ready to begin installing UsbDrvInstall on your computer.	Ö	
	Click Install to continue with the installation, or click Back if you want to review or change any settings.		
	Destination location: C\Program Files (x86) Ingenico\IngenicoUSBDrivers	^	
		~	
	٢	>	
	< Back Install	Cance	el

Figure 12 Ready to Install

10. Click **Install** to continue with the installation. Click **Back** if you want to review or change any settings.

Force COM Port Feature enable	d	
Select by Product ID		Virtual COM Port
Product ID (PID)		(decimal range 1-256)
0060 (Ingenico iPP3xx/iPP4	xx) ~	8
	~	
	~	
	~	
Select by Connection Order (Ente	r decimal Value of C	OM port)

Figure 13 USB Driver Parameters

- 11. Select Force COM Port Feature enabled. (Required)
- 12. Type the **Product ID**, available on the back of the device. (Required)
- 13. Type the Virtual COM Port. (Required) The system defaults to '8.'
- 14. Repeat **steps 12 and 13** if you have two PIN pad devices attached to one terminal.



	nced options. Select if old versions of Usbser driver will	(
be deleted.		
Advanced Options		
Uninstall Microsoft U	sbser drivers(s)	
	sbser drivers(s)	
Uninstall Microsoft U	sbser drivers(s)	
	sbser drivers(s)	
	sbser drivers(s)	

Figure 14 Advance Parameters

15. Select Uninstall Microsoft Usbser drivers(s) and click Next. (Recommended)

Choose a Start Menu folder for the Inge shortcuts.	enico USB Drivers Packa	age (JUNGO v36) 2.	60
Select the Start Menu folder in which yo can also enter a name to create a new f		the program's shorte	uts. You
Ingenico \Ingenico USB Drivers Package	e (JUNGO v36) 2.60		
Accessibility Accessories Administrative Tools Aloha SupportReady AXF Chrome Apps Cisco Jabber Command Center Dell Webcam Denybox			^ •
Do not create shortcuts penico (Beyond Payment)			

Figure 15 Choose Start Menu Folder

- 16. Select a **Start Menu** folder into which to create the program's shortcuts, or leave the **current selection** as the default location.
- 17. Click Install.





Figure 16 Setup Complete



Attaching the Ingenico iPP320 PIN pad device to a terminal

Attach the Ingenico iPP320 PIN Pad Device to the terminal.



Figure 17 Attaching the PIN Pad Device to a Terminal

If you are using only one PIN pad device per POS terminal, you can use a serial cable. If you are using two PIN pad devices per POS terminal, you must use a USB converter cable.



Locating Ingenico iPP320 serial numbers



Figure 18 Serial Numbers

The Ingenico iPP320 serial numbers are located on the back of each PIN pad device.



Figure 19 Ingenico iPP320 PIN Pad Device

Initializing the Ingenico iPP320 device

Moneris requires an initialization event of every PIN pad. The event occurs on the first transaction only.

- If using two PIN pad devices per terminal, the POS terminal allows both initializations at the same time.
- The initialization process lasts two to four minutes.
- The initialization process must run while in 'online mode,' as it requires a response code from Moneris.



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Configuring EMV Moneris

To configure EMV, access either Aloha Manager or Aloha Configuration Center (CFC) and perform several functions, such as configure the Moneris processor in EDC, enable Chip and Pin functionality, and more.

This section details the configuration requirements within Aloha EDC and Aloha POS for EMV Moneris. If you are an experienced user, refer to Procedures at a Glance for abbreviated steps. If you prefer more detail, continue reading this document.

EMV	Moneris Procedures at a Glance:
	are viewing this document using Adobe Acrobat Reader, click each link for detailed information ding the task.
1.	Access Maintenance > Electronic Draft Capture > Processor and configure the Moneris processor, complete with unique merchant ID numbers and a BOH terminal ID number. See <u>page 19</u> .
2.	Access Maintenance > Electronic Draft Capture > Cards to assign the appropriate payment cards to the Moneris processor. See <u>page 22</u> .
3.	Access Maintenance > Business > Store > Store Settings tab > Credit Card group > EDC Setup group bar to enable the Chip and PIN feature for EDC and designate Moneris as the 'EMV processor' to force chip-enabled cards to be read using a PIN pad device. See <u>page 23</u> .
4.	Access Maintenance > Business > Store > Store Settings tab > Credit Card group > Voucher print settings group bar to configure the voucher requirements for Moneris. You can also combine the first voucher with the guest check, to save paper. See page 25.
5.	Access Maintenance > Payments > Tenders to create a tender for each PIN pad device. See <u>page 26</u> .
6.	Access Maintenance > Screen Designer > Quick Service Screen Designer to create tender buttons, such as 'PIN Pad1' and 'PIN Pad 2.' (Required for Quick Service only) See <u>page 28</u> .
7.	Clear 'Wait for credit authorization' in Maintenance > System Settings > Revenue Center to allow you to start a new guest check without waiting for authorization for the current guest check. See <u>page 30</u> .
8.	Access Maintenance > Hardware > Terminals to assign up to two PIN pad devices to a FOH terminal. See <u>page 31</u> .
9.	Access Maintenance > Labor > Pos Access Levels to provide the ability to slide an EMV-enabled card on the POS terminal MSR. (Optional). See <u>page 33</u> .
10.	Access Utilities > POS > Refresh POS & All Installed Products to refresh your POS system and stop and start EDC processing. See <u>page 34</u> .



Configuring the Moneris processor

As of this writing, Elavon and Moneris are the only processors supporting the EMV payment technology, and it is only supported in Canada. To accept the Moneris type of payment card, you must reach out to Moneris and obtain a unique terminal ID for the BOH file server and each Ingenico iPP320 PIN pad device in the network.

To configure the Moneris processor:

- 1. Select Maintenance > Electronic Draft Capture > Processor.
- 2. Select **Moneris** from the drop-down list, or click the **New** drop-down arrow, select **Moneris** as the owner, and click **OK**.

Processor	
Processor: <mark>6 Mone</mark> r	is - 1 Moneris 1
Processor Options Dialing Custom	
Identification	
Number	6
Name	Moneris - 1
Active	
Index	1
Туре	Moneris
Moneris Merchant ID	20150706
BOH terminal ID	12345678
SSL	
Internet address	ipgt.moneris.com

Figure 20 Processor Tab

- 3. If this is a new processor, accept the **system assigned number** or click the **ellipsis button (...)** next to 'Number' to display the Number Assignment dialog box, from which you can choose an **alternate number**.
- 4. Under the 'Moneris' group bar, type the unique merchant ID provided by the processor.
- 5. Type the **unique terminal ID provided by the processor** for your BOH file server in 'BOH terminal ID.' This step is mandatory.
- 6. Under the 'SSL' group bar, type the **URL provided by the processor**. For example, 'ipgt.moneris.com.'
- 7. Select the **Options** tab.



Processor		
Processor: 6 Moneris - 1 Moneris 1		-
Processor Options Dialing Custom		
Credit Card Prepaid Transaction		
Credit prepaid transactions	✓	
EMV		
Process EMV transactions	V	
Options		
Disable adjustments		

Figure 21 Options Tab

- 8. Under the 'EMV' group bar, select **Process EMV transactions**.
- Under the 'Options' group bar, select Disable adjustments to prevent an employee from adjusting a credit card payment, once the payment has processed. Use this feature in conjunction with Maintenance > Business > Store > Store Settings tab > Credit Card group > EDC Setup group bar > Disable credit card adjustments to prevent adjustments.

If you select both 'Disable adjustments' in EDC and 'Disable credit card adjustments' in the POS, the system prevents an employee from adjusting a processed credit card payment.

If you select 'Disable adjustments' in EDC and clear 'Disable credit card adjustments' in the POS, the employee can adjust the processed credit card payment; however, EDC stops the transaction and an 'Adjustments were disabled at the time of this transaction' error message appears.

If you clear 'Disable adjustments' in EDC and select 'Disable credit card adjustments' in the POS, the FOH prevents the employee from adjusting the processed credit card payment.



10. Select the **Dialing** tab.

Processor Options Dialin	g Custom		
Phone Numbers			
Authorization		800-555-5555	
Voice authorization		800-555-5555	
Settlement		2015076	
Settlement assistance	•		
Help desk			
= Modem			
Current modem		None	
Number of dial attem	ots	1	
🖃 Configurable Ba	ud Rate		
Authorization baud ra	te	None	
Settlement baud rate		None	

Figure 22 Dialing Tab

- 11. Under the 'Phone Numbers' group bar, type the **phone number** used for authorizations.
- 12. Type the **phone number** used for settlements.
- 13. Click **Save** and exit the **Processor** function.



Configuring payment cards for use with Moneris

You must also assign the appropriate payments cards to the Moneris processor.

1. Select Maintenance > Electronic Draft Capture > Cards.

Cards		
Cards: 1 EDC Cards		•
Cards		
🖬 Common Credit Cards		
Number	1	
Name	EDC Cards	
MC	Moneris	
Visa	Moneris	
AMEX	Moneris	
Diners/CB	Moneris	2
Discover	Moneris	
Enroute	Moneris	
JCB	Moneris	2
Military	None	
Private Label Credit Cards		
Private Label 1	None	
Private Label 2	None	
Private Label 3	None	1
Private Label 4	None	1
Private Label 5	None	
🖬 Gift Cards		
Paymentech	Paymentech	
ValueLink	CES	
Comdata	Comdata	
Vantiv	Vantiv Terminal Capture	
Private	None	
Heartland Payment Systems	None	
🖬 Debit Cards		
Canadian Debit	Moneris	
🗉 Other cards		
Chip 'N Pin	Moneris	
EBT	None	
Campus card	None	

Figure 23 Configuring Cards to Use with Moneris

- 2. Under the 'Common Credit Cards' group bar, select **Moneris** for each credit card type that will use the Moneris processor.
- Under the 'Debit Cards' group bar, select Moneris from the 'Canadian Debit' drop-down list. Note: Selecting 'Moneris' as the Canadian Debit processor disables the US Debit option.
- 4. Under the 'Other Cards' group bar, select **Moneris** from the 'Chip 'N Pin' drop-down list.
- 5. Click **Save** and exit the **Cards** function.



Enabling Chip and PIN

You must enable Chip and PIN in the Aloha POS system to use chip-based technology so you can accept credit cards using EMV Moneris.

- 1. Select Maintenance > Business > Store.
- 2. Select the **Store Settings** tab.
- 3. Select the **Credit Card** group located at the bottom of the screen.

Store: 10 Aloha Café		-
Location Information Licensing Custom Store Settings Aloha Manager		
EDC Setup		
Enable Electronic Draft Capture (EDC)		
Use Aloha EDC	✓	
Use Chip N Pin	✓	
Minutes for EDC to wait before timeout	20	
Only use track 2 credit card data		
Do not allow force authorizations		
Cannot use same credit card twice in the same day		
Allow same credit card in same day if at or below minute threshold	0	
Allow same credit card in same day if greater than minute threshold	0	
Allow authorization when EDC is offline	v	
Maximum authorization amount	200.00	
Add this tip % to total for authorization	20.00	
Display remaining card balance on partial approvals		
Display warning message when transaction is processed offline		
Authorize transactions less than 1.00		
Include transactions authorized from BOH EDC on POS		
Maximum amount of credit card refunds	0.00	
Number of IC verify terminals	1	
Credit Card Lookup ID	None	-
G Food stamp category	None	•
Show Last Settlement alert		
Tab or table name when customer name not found	Prompt user for tab or table name	-
EMV processor	Moneris	-
Allow standard credit card processing on POS terminals		
Display EMV liability warning		
Disable credit card adjustments		
Authorization		
Voucher print settings		

Figure 24 Store Settings Tab - Credit Card Group

- 4. Under the 'EDC Setup' group bar, select **Use Chip N Pin** to enable the Chip and PIN functionality for Aloha EDC.
- 5. Select **Moneris** from the 'EMV processor' drop-down list to force employees and guests to insert or slide chip-enabled cards into the PIN pad device to complete a transaction. When you select Moneris as the EMV processor, additional options appear.
- 6. Select **Allow standard credit card processing on POS terminals** to allow employees and guests to slide a chip-enabled card on a magnetic stripe reader (MSR) or enter the card number manually on the FOH only as a backup method. Selecting this option may impede EMV functionality; however, if you do, you have the choice of having the FOH display an EMV liability warning message.
- Select **Display EMV liability warning** to enable the alert, 'Processing credit cards at this POS terminal could result in liabilities and fees due to EMV requirements. Would you like to proceed?' on the FOH. (Recommended)
- 8. Select **Disable credit card adjustments** to prevent credit card adjustments after the payment has processed. An error message appears if there is an attempt to adjust the payment, and the



© 2024 NCR Voyix. All rights reserved. NCR Voyix – Confidential Use and Disclose Solely Pursuant to Company Instructions Adjust and Adjust Tips buttons are not available on the Tender screen. Use this feature in conjunction with **Maintenance > Electronic Draft Capture > Processor > Options** tab **> Options** group bar **> Disable adjustments.**

If you select both 'Disable credit card adjustments' in the POS and 'Disable adjustments' in EDC, the system prevents an employee from adjusting a processed credit card payment.

If you select 'Disable credit card adjustments' in the POS and clear 'Disable adjustments' in EDC, the FOH prevents the employee from adjusting the processed credit card payment.

If you clear 'Disable credit card adjustments' in the POS and select 'Disable adjustments' in EDC, the employee can adjust the processed credit card payment; however, EDC stops the transaction and an 'Adjustments were disabled at the time of this transaction' error message appears in EDC.

9. Click **Save** and continue to the **next procedure**.

Enabling voucher requirements for Moneris

Moneris has specific requirements that must appear on the voucher. This procedure is mandatory.

- 1. Select Maintenance > Business > Store.
- 2. Select the **Store Settings** tab.
- 3. Select the Credit Card group located at the bottom of the screen.

	Store: 1 Aloha Café		•	
Lo	ocation Information Licensing Custom Store Settings Aloha Man	ager		
	EDC Setup	*	^	
	Authorization			
	Voucher print settings			
	Print mandatory processor vouchers	Moneris	-	Π
H	Print a voided credit card slip when payment is deleted		=	Ħ
	Suppress cardholder name			
	Mask 'Not Applicable' card types			
	Use custom Canadian debit vouchers			
	Voucher printer for declined cards	None	-	
	Limit declined card voucher printing to Labor Group	None	-	
	Signature not required for Swiped Cards		_	
	Signature not required for Tapped Cards			
	Signature not required for Manually Entered Cards			
	Require signature when transaction is approved offline			
	Signature not required if check total is less than this amount	0.00		
	Number of voucher copies to print	2	-	
	Print first voucher with guest check	V		
	Text to print on first voucher copy	Customer Copy		Π
	Text to print on second voucher copy	Store Copy	-	

Figure 25 Voucher Print Settings Group Bar

4. Under the 'Voucher print settings' group bar, select **Moneris** from the 'Print mandatory processor vouchers' drop-down list.



- 5. Select **Print first voucher with guest check** to combine the customer voucher with the guest check, saving paper. (Optional)
- 6. Click **Save** and exit the **Store** function.

Creating a tender for each PIN pad device

The Ingenico PIN pad device can read a chip-enabled card, a magnetic stripe card, and a contactless card, and has the ability to detect the card type for you. In a fast-paced environment, it is possible to connect two of these devices to a single POS terminal and use the 'slide and go' environment to process a payment from one guest on the first PIN pad device while processing a payment from another guest on the second PIN pad device. Instead of the cashier touching a specific tender type on the Tender screen, such as MasterCard or Visa, you display two buttons on the Tender screen, one for each PIN pad device. The cashier alternately selects between the two buttons based on the PIN pad device that is available for processing a payment.

SCENARIO: You work as a cashier in a fast-paced environment in which you have a line of guests waiting to pay. Enter the first order and touch PIN Pad #1 on the Tender screen to initiate payment on the primary PIN pad device. While the first guest is responding to the prompts, enter the next order and touch PIN Pad #2 on the Tender screen to initiate payment on the secondary PIN pad device.

- 1. Select Maintenance > Payments > Tenders.
- 2. Click the New drop-down arrow, select Credit Card and click OK.

Tenders		
Tender: 40 PIN Pad #1 Cred	it card	•
Tender Type Identification Authorization Reconciliation F	Printers Rounding	
Settings		^
Number	40	
Name	PIN Pad #1	
Туре	Credit card	
First available button position	×	
Button image	None	•
Report as	Current	•
Default amount behavior	Ask for amount	•
Active	✓	
Track		
Can refund		
Affect deposit		
Print check on close		
Open drawer on close		
Print signature line		
Combine on check		
Close check upon payment		
📕 🖉 Do not verify amount		
Overpayment		
Allow overpayment		
Auto fix balance without prompt		
Provide change		
🖬 Tips		
Allow tips		
Maximum tip %	20.00	
Tip refund %	100.000000	
Remove tip line if auto gratuity		-

Figure 26 Tenders - Tenders Tab

Under the 'Settings' group bar, accept the system assigned number or click the ellipsis button
(...) next to 'Number' to display the Number Assignment dialog box, from which you can choose
an alternate number.



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- 4. Type a **name** for the primary PIN pad device, such as 'PIN Pad #1.'
- 5. If using Table Service, click the **ellipsis (...)** to display the 'Select New Button Position' dialog box and select an available position for the PIN pad device on the Tender screen, or select **First available button position** to assign the device to the first available button on the screen. For Quick Service, access Quick Service Screen Designer to add a button for each PIN pad device to the panel currently used for tendering. See <u>"Creating a tender button for each PIN pad device (QS only)" on page 28</u>.
- 6. Select Can refund. (Required)
- 7. Under the 'Tips' group bar, select **Allow tips** if you allow tips for this tender.
- 8. Configure the **remaining options** as normal.
- 9. Select the **Type** tab.

Tenders		
Tender: 40 PIN Pad #1 Credit card		•
Tender Type Identification Authorization Reconciliation Printers Rounding		
Type settings		
Credit card provider	Not Applicable	•
Prompt for payment using the following PIN pad	Primary PIN pad	-
Apply a surcharge to this tender	None	-
Chip 'N Pin reader ID required		
Property management settings		
Post to PMS		
E Foreign Currency		
Foreign currency	None	•
Options settings		
Use magnetic card only		
Expiration		
Verify signature		
Get common service tender prefix		
Osplay tender screen on card swipe		

Figure 27 Tenders - Type Tab

- 10. Under the 'Type settings' group bar, select Not Applicable as the credit card provider. (Required) A 'Not Applicable' tender alerts EDC to handle the transaction outside the normal process, send the amount due to the PIN pad device, and prompt the guest through the payment process.
- 11. Select **Primary PIN pad** from the 'Prompt for payment using the following PIN pad' drop-down list.



12. Select the **Authorization** tab.

Tender: 40 PIN Pad #1 Credit card		-
der Type Identification Authorization Reconciliation Printers	Rounding	
Authorization		
Require authorization	V	
Authorization prompt	Auth#	
Maximum length	8	
Print on check	¥	
Authorize using EDC	✓	
Allow pre-auth with EDC	Image: A state of the state	
Do not print vouchers		
Apply signature line rules for vouchers		

Figure 28 Tenders - Authorization Tab

- 13. Select **Require authorization** to display additional options and to allow use with the Ingenico iPP320 PIN pad device. (Required)
- 14. Select Print on check to print the authorization code on the guest check. (Required)
- 15. Select Authorize using EDC to use Aloha EDC for credit card authorization. (Required)
- 16. Select Allow pre-auth with EDC to use Aloha EDC for credit card pre-authorization. (Required)
- 17. Click Save.
- 18. If using a second PIN pad device, repeat this procedure. When configuring the Type tab, select Secondary PIN pad from the 'Prompt for payment using the following PIN pad' drop-down list.
- 19. Exit the **Tenders** function.

Reference

a

Refer to the <u>Credit Card Lookup in Quick Service Feature Focus Guide - HKS336</u> for more information on 'Slide and Go' and more.

Creating a tender button for each PIN pad device (QS only)

For Aloha Quick Service operations, you must add a button to the Tender screen for each PIN pad device. For Table Service operations, the system adds the button for you based on the button configuration of the PIN pad device in the Tenders function.

- 1. Select Maintenance > Screen Designer > Quick Service Screen Designer.
- 2. Select Work with Panels.
- 3. Select Panel > Open Panel, select a panel to edit, such as the Tender panel, and click OK.



4. Select an available button or create a new button. The Properties dialog box appears.

Pr	operties	
Ξ	Appearance	_
	Text	PIN Pad\n#1
	Text Alignment	Middle center
	Font	Panel Button
	Text Color	Skin
	Background Color	Skin
	Highlight	Skin
	Image	None
	Use new button display c	False
	Gradient	None
	Shadow	False
	Bevel	False
	Outline	False
	Scale image	False
	Style	Rounded rectangle
	Tag	None
Ξ	Function	
	Action	Tender
	Tender	PIN Pad #1 📃
	Open Drawer	True
Ξ	Layout	•
T	ender	

Figure 29 Properties Dialog Box

- 5. Under the 'Function' group bar, select **Tender** from the 'Action' drop-down list.
- 6. Select the **primary PIN pad** from the 'Tender' drop-down list.
- 7. Select True or False from the 'Open Drawer' drop-down list, depending on your business needs.
- 8. Under the 'Appearance' group bar, type a **name** for the button, such as PIN Pad\n#1.' To display text on multiple lines, insert '\n' without spaces for line breaks.
- 9. Configure the **remaining options** as you would for any other button.
- 10. Repeat this procedure for a **second PIN pad tender button**, if you have a second iPP320 PIN Pad device attached to the terminal.
- 11. Select **Panel > Save Panel**.
- 12. Select File > Exit to exit Quick Service Screen Designer.



Bypassing the wait time for PIN pad authorization in Quick Service

In a fast-paced environment, it is possible to connect two PIN pad devices to a single POS terminal and use the 'slide and go' environment to process a payment from on guest on the first PIN pad device while processing a payment from another guest on the second PIN pad device. In order to bypass the wait time for one PIN pad device to provide authorization and complete the transaction, clear the 'Wait for credit authorization' feature found in Revenue Center.

To bypass the wait time for PIN pad authorization in Quick Service:

- 1. Select Maintenance > System Settings > Revenue Center.
- 2. Select the **revenue center** from the drop-down list.

Revenue Center		
Revenue Center: 1 Dine-In		-
Revenue Centers Gratuities Options		
Settings		
Number	1	
Name	Dine-In	
Disable tips		
W Use numeric tab name		
🔯 Wait for credit card authorization		
Print check on close	Default	•

Figure 30 Revenue Center

- 3. Clear Wait for credit card authorization to continue to the next transaction.
- 4. Click Save and exit Revenue Center.



Assigning a PIN pad device to a POS terminal

- 1. Select Maintenance > Hardware > Terminals.
- 2. Select the **POS terminal** to which to assign a PIN pad device from the 'Terminal' drop-down list.
- 3. Select the **Output Devices** tab.

Terminal: 1 SERVER STAT #1		-
Terminal Readers Output Devices EDC Settings		
Pole display		
Use pole display		
Coin changer		
Туре	None	-
Aloha spy server		
Port	0	
IP address		
Fiscal manager		
Port	0	
IP address		
PIN pad		
Туре	Ingenico IPP320	
Port	COM 1	
Terminal ID	A123C844	
Secondary PIN pad	Ingenico IPP320	•
Secondary port	COM 2	
Secondary terminal ID	A442E146	
Order numbering		
	O The first item is entered	
San Assign an order number when	O The check is sent	

Figure 31 Terminals - Output Devices Tab

- 4. Under the 'PIN pad' group bar, select Ingenico IPP320. Additional options appear.
- 5. Select the **COM port** to which you attached the first PIN pad device from the 'Port' drop-down list. For example, 'COM1.'
- 6. Type the **unique terminal ID** to assign to the first PIN pad device. This is mandatory. Contact the processor for the unique terminal ID.
- 7. Select **Ingenico IPP320** from the 'Secondary PIN pad' drop-down list, if using two PIN pad devices per POS terminal. Additional options appear.
- 8. Select the **COM port** to which you attached the second PIN pad device from the 'Secondary port' drop-down list. For example, 'COM2.'
- 9. Type the **unique terminal ID** to assign to the second PIN pad device. This is mandatory. Contact the processor for the unique terminal ID.



10. Click the **EDC Settings** tab.

Terminals		
Terminal: 1 SERVER	STAT #1	•
Terminal Readers Output Devices EDC Settings		
Unique terminal ID for each proces	sor	
Processor	∆ Terminal ID	Add
Moneris - 1	▼ 100	
Vantiv Terminal Capture - 1	057	Remove
		Processor

Figure 32 Terminals - EDC Settings Tab

- 11. Click **Add**.
- 12. Select Moneris from the 'Processor' drop-down list.
- 13. Type the **unique terminal ID** obtained from the processor for this POS terminal.
- 14. Select **another processor** from the 'Processor' drop-down list, if necessary. **Note:** You cannot select Moneris for the secondary processor.
- 15. Type the **unique terminal ID** either provided by the processor or assigned by you.
- 16. Click **Save** and exit the **Terminals** function.



Overriding EMV verifications

The POS offers a POS access level to allow merchants to slide EMV-enabled cards through an MSR on the POS terminal, but only as a backup and optional solution. Enable this feature based on your business needs.

- 1. Select Maintenance > Labor > Pos Access Levels.
- 2. Select the access level from the POS Access Level drop-down list.

POS Access Level: 2 Manager		
ess Level		
Credit card refunds	V	
Manual card number	V	
Force payment authorization	V	
Override security verifications on tenders	✓	
Resend failed credit card transaction		
Override gift card restrictions		
Enable cash out from gift card	✓	
Approve additional Aloha Loyalty member transactions		
Approve manual Aloha Loyalty card number	✓	
Approve Aloha Loyalty card assignment	✓	
Approve Aloha Loyalty member lookup		
Maply tax exempt	✓	
Restricted tender group for this access level	None	-
Verride maximum number of refills		
Assign price change	✓	
🜃 Edit event tax	✓	
Approve Family Style meals	✓	
Override split check limits		
Edit price change events	V	
Override EMV verifications	V	
1 Distribute Sales and Tips		
Manage Sales and Tip Distribution Teams		

Figure 33 POS Access Levels

- 3. Under the 'Financial' group bar, select **Override EMV verifications** to allow employees assigned this access level to slide the EMV-enabled card through an MSR on the FOH only as a backup and optional solution.
- 4. Click Save.
- 5. Repeat this **procedure** for any other access level requiring the ability to slide an EMV-enabled card through the MSR on the POS terminal.
- 6. Exit the **Pos Access Levels** function.



Refreshing the data

Once you configure the necessary features for EMV, you must refresh the Aloha POS system, then stop, and restart EDC Service (EDCSvr).

Tip

If you make any changes to the wireless PIN pad device settings, such as changing the IP address or adding an additional wireless PIN pad device, you must (1) refresh the Aloha POS and All Installed Products, and (2) stop the 'POS processing' in Aloha EDC, and then restart it.

Select **Utilities > POS > Refresh POS & All Installed Products** to transfer the new information to the FOH terminals, or wait for the End-of-Day (EOD) process to accomplish the data refresh for you. **Note:** If you run the refresh prior to the EOD process, select 'Automatically restart all POS terminals' and click OK to continue. After the data refresh is complete, all new settings become operational across the Aloha network.

Caution

Δ

Refresh data with caution and never during peak hours of operation. All FOH terminals reboot during a refresh and are down for a short period of time.

Go to Windows Services, select EDC Service to stop and then restart. PIN pads obtain proper configuration.



Using Moneris and the PIN pad device

The magnetic stripe reader on a smart card stores data that allows the card to be read by the MSR or inserted for chip processing. The Ingenico iPP320 PIN pad device allows your guest to slide, tap or insert the chip-enabled card.

Getting started

As the guest makes selections, the Ingenico iPP320 PIN pad device auto-advances to the next screen.

- 1. Enter the **items** on the front-of-house (FOH) terminal.
- 2. Touch the **PIN Pad #1 tender** to initiate payment.



Figure 34 Wait for Card Entry Message on FOH

The 'Please wait for card entry on supported device' message appears on the FOH. If you touch **Cancel**, the transaction cancels and the POS system returns to the on-screen guest check.



Figure 35 Welcome Screen



© 2024 NCR Voyix. All rights reserved. NCR Voyix — Confidential Use and Disclose Solely Pursuant to Company Instructions PURCHASE #10.00 SWIPE, TAP OR INSERT CARD / GLISSER, PRESE NTER OU INSERER CARTE IPP320 F1 F2 F3 F4

The PIN pad device initializes and the Welcome screen appears.

Figure 36 Amount Appears With Guest Instructions

3. The guest inserts the **payment card** into the Ingenico iPP320. The PIN pad device confirms the brand of the card. The total purchase amount appears.



Figure 37 Purchase Approval Screen

4. The guest presses **OK** to approve the purchase.





Figure 38 Enter Tip Amount Screen

- 5. If desired, using the keypad, the guest enters a **tip amount**, and presses **OK**. Note: The guest must include a tip while the card remains in the PIN pad device; card adjustments cannot be made once the card is removed.
- 6. The guest presses **OK** to approve the **total amount**.



Figure 39 Enter Tip Screen

7. The guest enters the **PIN** and presses **OK**. The 'Please Wait, Do Not Remove Card' message appears while the device sends the transaction.




Figure 40 Transaction Complete

'Approved' appears on the Ingenico iPP320 PIN pad device, and the device prompts the guest to remove the card.

8. The guest removes the **card** from the PIN pad device.

Adding a tip

A guest can add a tip to the check using the PIN pad device during the prompts if the PIN pad tender is configured for tips.



Explaining PIN pad voucher requirements

EMV and Moneris have specific requirements for vouchers. To meet these requirements, the voucher prints the required fields in English or French, based on the language code on the card being used. If a preferred language is not read by the device, the voucher prints in English.

Information provided on the voucher differentiates between transactions performed on the Ingenico iPP320 PIN pad device (contact, contactless, MSR) and those allowed on the POS terminal (MSR and manual card entry). Transactions using the PIN pad device print the required EMV information on the voucher.

Vouchers for Ingenico iPP320 PIN pad devices

If the guest inserts, taps, or slides a chip-enabled card using the magnetic stripe reader (MSR) on the Ingenico iPP320 PIN pad, the voucher contains the required EMV tag lines. See the examples provided below.

If the PIN pad device reads the language code of the card as English, the voucher appears as:



Figure 41 Purchase with Tip - English

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© 2024 NCR Voyix. All rights reserved. NCR Voyix — Confidential Use and Disclose Solely Pursuant to Company Instructions If the PIN pad device reads the language code of the card as French, the voucher appears as:



Figure 42 Purchase with Tip - French



Vouchers for MSR on POS terminal

If the PIN pad device fails to read the card chip and the magnetic stripe reader cannot read the magnetic stripe of the card, you can slide the card using the magnetic stripe reader on the POS terminal if you have the appropriate access level. Because the POS terminal reads the card, the vouchers do not contain the EMV tag lines.

Examples provided below show vouchers in English and French. If the PIN pad device reads the language code of the card as English, the voucher appears as:



Figure 43 Purchase with Tip - English

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If the PIN pad device reads the language code of the card as French, the voucher appears as:



Figure 44 Purchase with Tip - French



Reporting Moneris

Aloha EDC supplies four new indicators on the EDC Transaction and EDC Audit Transaction reports, including 'fallback' transactions. A fallback transaction occurs when a chip-enabled card is ultimately used by sliding the card on the MSR instead of inserting the card, or tapping the card on the PIN pad device.

The indicators appear to the right of the authorization code on the reports.

- 'E' appears if a guest inserts a chip-enabled card (contact transaction) into the iPP320 PIN pad device.
- 'ET' appears if a guest taps a chip-enabled card (contact-less transaction) on the iPP320 PIN pad device.
- 'ES' appears if a guest inserts a chip-enabled card, the PIN pad device is unable to read the chip, and you must slide the card using the MSR.
- 'EM' appears if a guest inserts a chip-enabled card, the PIN pad device is unable to read the chip, and you must manually enter the card number on the Front-of-House (FOH).

vha Café 73 Yonge Street ronto, ON iE 1X8			EDC Transaction Report 07/15/2015			Page 1 of 07/21/2015 – 10:07 A 15.1.0 Di Printed by: Seeded Administrat			
redit Card / Deb	oit Card Transac	ctions							
Employee	Check	Txn	Туре	Card	Exp	Auth	Amount	Tip	Total
ElliotStabler	100024	Sale	Visa	XXXXXXXXXXXXX1111	Visa	ТАЗ614 Е	31.51	6.00	37.51
Elliot Stabler	100037	Sale	Visa	XXXXXXXXXXXXX2222	Visa	TA3694 ET	27.94	3.00	30.94
Nick Amaro	100112	Sale	Visa	XXXXXXXXXXXXX3333	Visa	TA371.9 ES	43.97	4.00	47.97
Finn Tutuola	100227	Sale	Visa	XXXXXXXXXXXX4444	Visa	TA3686 E	24.87	3.00	27.87
Finn Tutuola	100241	Sale	Visa	XXXXXXXXXXXXX4554	Visa	TA3446 E	41.55	8.00	49.55
Elliot Stabler	100037	Sale	Visa	XXXXXXXXXXXXXXX4122	Visa	TA9994 ET	27.94	3.00	30.94
Nick Amaro	100772	Sale	Visa	XXXXXXXXXXXXX3433	Visa	TA6319 EM	43.97	4.00	47.97
Amanda Rollins	100342	Sale	Visa	XXXXXXXXXXXXXX4133	Visa	TA6319 E	62.47	12.00	74.47
				VIS	A Total 8 tra	insactions:	304.22	43.00	347.22
				VISA Gran	d Total 8 tra	nsactions:	304.22	43.00	347.22
Legend:				Gran	d Total 8 tra	nsactions:	304.22	43.00	347.22
	contact transac	tion							
	contact transaction								
	fallback transaction: Slide using MSR								
	MV fallback transaction: Manually enter card number on the FOH								

Figure 45 EDC Transaction Report Example



Troubleshooting Moneris

The following are error messages and troubleshooting tips when using Moneris and the Ingenico iPP320 PIN pad device.

FOH guest check error message

If you attempt to use a chip-enabled payment card, the following error message, 'Processor not configured,' appears on the FOH screen when Moneris is not configured in Maintenance > Electronic Draft Capture > Cards.



Figure 46 Processor Not Configured Error Message

PIN pad does not initialize after touching PIN pad #1 or PIN pad #2

If you touch either PIN Pad #1 or PIN Pad #2 (as the 'Not Applicable' tender) and the PIN pad does not initialize, verify that 'Use Chip N Pin' under the 'EDC Setup' group bar in the 'Credit Card' group is selected in Maintenance > Business > Store > Store Settings tab.

Transaction not approved

A 'Transaction Not Approved' error message appears on the voucher when you attempt a correction or void on a payment card that was not used originally. The guest must provide the same payment card originally authorized for purchase.



No EMV devices are configured for this tender error message



Figure 47 No EMV Devices Configure for This Tender Error Message

If 'Prompt for payment using the following PIN pad' is set to None under the 'Type settings' group bar, in Maintenance > Payments > Tenders > Type tab, the 'No EMV devices are configured for this tender' error message appears.

EMV devices not detected at this POS terminal



Figure 48 EMV Devices Not Detected At This POS Terminal Error Message

If 'Prompt for payment using the following PIN pad is set to PIN Pad #1 or PIN Pad #2 under the 'Type settings' group bar in Maintenance > Payments > Tenders > Type tab and the PIN pad is disconnected from the POS terminal (not due to hardware issues or any other type of malfunction), the 'EMV devices not detected at this POS terminal' error message appears.

If the PIN pad is connected and properly communicates with Aloha, the PIN pad prompts for payment and continues the transaction process.



EMV devices are not available at this time

If you touch a PIN pad tender and the PIN pad device is not available or in use, the 'Please wait. EMV devices are not available at this time' warning message appears.



Figure 49 Please Wait. EMV Devices Are Not Available... Error Message

You and the guest must wait until the PIN pad device becomes available to continue the transaction process.

Payment card entry not supported at this terminal

If you attempt to slide the payment card on the MSR or manually enter the credit card data and the 'Payment card entry not supported at this terminal' error message appears on the FOH, the guest must use the PIN pad device.



Figure 50 Payment Card Entry Not Supported Error Message

The warning message appears if:

If you clear 'Allow standard credit card processing on POS terminals' under the 'EDC Setup' group bar in the Credit Card group on the Store Settings tab in Maintenance > Business > Store.

-OR-

If you select 'Allow standard credit card processing on POS terminals' under the 'EDC Setup' group bar of the Credit Card group on the Store Settings tab in Maintenance > Business > Store, but you



© 2024 NCR Voyix. All rights reserved. NCR Voyix – Confidential Use and Disclose Solely Pursuant to Company Instructions clear 'Override EMV verifications' for the employee under the 'Financial' group bar in Maintenance > Labor > Pos Access Levels

Processing credit cards at this POS terminal could result...

If you select 'Allow standard credit card processing on POS terminals' and 'Display EMV liability warning' under the 'EDC Setup' group bar of the Credit Card group on the Store Settings tab in Maintenance > Business > Store > Store Settings tab, and you select the 'Override EMV verifications' access level, the 'Processing credit cards at this POS terminal could result in liabilities and fees due to EMV requirements. Would you like to proceed?' warning message appears.



Figure 51 Processing Credit Cards At This Terminal... Error Message

To allow sliding the card or manually entering the card number, touch OK. The POS system prompts for the cardholder verification process, such as entering a ZIP code and/or the three-digit security code located on the back of the payment card, if properly configured.

If you touch cancel, the FOH returns to the guest check.

No EMV devices are configured for this POS terminal



Figure 52 No EMV Devices are Configured for This POS Terminal

If you touch a PIN pad tender and the 'No EMV devices are configured for this POS terminal' error message appears on the FOH screen, you must configure a PIN pad device for the terminal.



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Please wait for card entry on supported device

If you touch the PIN pad tender, enter the amount, and touch OK, the 'Please wait for card entry on supported device' alert message appears.



Figure 53 Please Wait for Card Entry on Supported Device Alert Message

The PIN pad must initialize, display the amount due, and then start the EMV prompts for the guest. If you touch Cancel, the screen returns to the guest check.

Moneris and offline transactions

Moneris does not allow offline transactions.



Appendix

This section provides detailed information regarding Address Verification System (AVS) and Card Validation response codes.

AVS response codes

To use the Address Verification feature, using the appropriate credit card tender, select 'Enter address verification code' and complete the options under the 'Address' group bar on the Security Verification tab in Maintenance > Payments > Tenders.

MasterCard Responses			
Value	Description		
A	Address matches, postal code does not.		
N	Neither address nor postal code match.		
R	Retry, system unable to process.		
S	AVS not currently supported.		
U	No data from issuer/authorization system.		
W	For U.S. addresses, nine-digit postal code and addresses matches; for addresses outside the U.S., postal code matches, address does not.		
X	For U.S. addresses, nine-digit postal code and addresses matches; for addresses outside the U.S., postal code and address match.		
Y	For U.S. addresses, five-digit postal code and address matches.		
Z	For U.S. addresses, five-digit postal code matches, address does not.		

AmEx/JCB Card Responses			
Value	Description		
Y	Billing address and postal code both match.		
N	Billing address and postal code do not match.		
A	Billing address matches, postal code does not.		
Z	Postal code matches, billing address does not.		
U	Information is unavailable.		
S	AVS not currently supported.		
R	System unavailable, retry.		
L	CM name and postal code match.		

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AmEx/JCB Card Responses			
Value	Description		
М	CM name, billing address, and postal code match.		
0	CM name and billing address match.		
К	CM name matches.		
D	CM name incorrect, postal code matches.		
E	CM name incorrect, billing address and postal code match.		
F	CM name incorrect, billing address matches.		
W	CM name, billing address, and postal code are all correct.		

Value	Description	Domestic	International
А	The street address matches but the postal/ZIP code does not, or the request does not include the postal/ZIP code.	X	Х
В	Street address matches, but postal code not verified due to incompatible formats. (Acquirer sent both street address and postal code.)	X	Х
С	Street address and postal code not verified due to incompatible formats. (Acquirer sent both street address and postal code.)	X	Х
D	Street address and postal code match.		Х
G	Address information not verified for international transaction.		Х
I	Address information not verified.		Х
М	Street address and postal code match.		Х
Ν	No match. Acquirer sent postal/ZIP code only, or street address only, or both postal code and street address.	X	Х
Р	Postal code match. Acquirer sent both postal code and street address, but street address was not verified due to incompatible formats.	X	Х
R	Retry, system was unavailable or timed out. Issuer ordinarily performs its own AVS but was unavailable. Available for U.S. issuers only.	X	
S	Not applicable. If present, replaced with G (for international) or U (for domestic) by V.I.P. Available for U.S. issuers only.	X	



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Visa Ca	Visa Card Responses				
Value	Description	Domestic	International		
U	Address not verified for domestic transaction. Visa check failed because: no AVS information was available on record; issuer is not an AVS participant; or AVS data was present in the request but issuer did not return an AVS result.	X			
W	Not applicable. If present, replaced with Z by V.I.P. Available for U.S. issuers only.	X			
Х	Not applicable. If present, replaced with Y by V.I.P. Available for U.S. issuers only.	X			
Y	Street address and postal code match.	Х			
Z	Postal/ZIP matches, but street address does not match, or was not included in request.	X	Х		

Discover Card Responses			
Value	Description		
Х	Address matches, nine-digit postal code matches.		
A	Address matches, five-digit postal code matches.		
Y	Address matches, postal code does not.		
Т	Nine-digit postal code matches, address does not.		
Z	Five-digit postal code matches, address does not.		
N	Nothing matches.		
W	No data from Issuer/Authorization system.		
U	Retry, system unable to process.		
S	AVS not supported at this time.		
G	Address information not verified for international transaction.		



Card validation codes (CVC2, CVV2, CID)

The card validation codes are located on the back of the payment cards. The following are responses that you may receive for a transaction.

Responses				
Value	Description			
D	Invalid security code for AMEX/JCB/Discover (CID).			
М	CVV2 match.			
N	No match for CVV2 or for CID.			
Р	Not processed.			
S	CVV2 should be on the card, but the merchant has indicated that CVV2 is not present.			
U	Uncertified issuer (issuer not a CVV2 participant CID was not checked).			
Y	Match for AMEX/JCB/Discover (CID).			



EMV Moneris, Feature Focus Guide

NCR Voyix welcomes your feedback on this document. Your comments can be of great value in helping us improve our information products. Please contact us using the following email address: Documentation.HSR@NCRVoyix.com

