

https://verifone.cloud/docs/sca-functional-specification/feature\_parity

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# Feature Parity - Mx9 vs Engage vs Neo

This section outlines the differences in commands and functionality across the Mx9 (VOS), Engage (VOS2) and Neo (VOS3) application specifications. It is designed to evaluate the parity between these platforms and serves as a key reference for users migrating terminals or platform from one OS to another.

### **Defining Solution Type**

Terms	Definitions
MX	Verifone MX Solutions which is applicable for all MX devices.
SCA 4.0 (Engage)	The platform version which is applicable for all Engage (VOS2) devices.
SCA 5.0 (Neo)	The platform version which is applicable for all Neo and Neo2 (VOS3) devices.
SCA - FDRC	SCA Enterprise solution connects directly to Fiserv (FDRC), which serves as the processor's authorization host for handling transaction approvals.
SCA - UGP	SCA Classic solution connects to UGP (Unified Global Protocol). This is the Verifone Payment gateway (also known as PAYware Connect) that will accept the UGP message specification and process the transaction to end processor's authorization host for handling transaction approvals. SCA UGP is also referred as "Point Classic Implementations".
SCA - TSYS	SCA Enterprise solution connects directly to TSYS, which serves as the processor's authorization host for handling transaction approvals.
SCA - Worldpay	SCA Enterprise solution connects directly to Worldpay (Vantiv), which serves as the processor's authorization host for handling transaction approvals.
SCA - Chase	SCA Enterprise solution connects directly to Chase, which serves as the processor's authorization host for handling transaction approvals.
SCA - GSC	SCA solution as GSC (Global Services Connector) connects to Verifone Greenbox (Cloud Services) gateway, which processes the transaction to end processor's authorization host for handling transaction approvals.

### **Supported Industries**

MX Engage Neo
(SCA4) (SCA5) Notes

**Retail** - type of payment industry systems process transactions between the customer and business merchant account through card networks, banks, and payment processors, without features like tips, servers, or table management.







**Restaurant** - type of industry provides merchants with retail-style payment tools like POS systems, online ordering, mobile payments, and features for tips, servers, and table management.





MOTO(Mail Order/Telephone Order) is used for payments when the card is not present, like phone or mail orders. It's common in catalogue sales, travel, and service businesses.





Non Petro Fleets, like those using natural gas, use payment methods such as credit and fleet cards. They need systems to track fuel, manage maintenance, and access charging stations.







Supported for Worldpay and **GSC** solutions only.

Banking/Cash advance







Supported for Worldpay solution only.

### **Integration Modes**

#### Feature/Functionality List

(SCA4) (SCA5)

Neo

**Notes** 

Semi-Integrated mode of Application connects directly to the payment host on the terminal. The POS uses an API/command to request payment authorization via the payment application on the terminal.







**Standalone mode of Application** connects directly to the payment host on the terminal. The payment authorization has been initiated by the cashier manually on the terminal.





Not supported for GSC solution.

Standalone + External PINPad (2-Piece Solution) - a separate payment application handles the transaction, while customers enter PIN on a different device (the external PIN pad). The main application manages the payment and communicates with the payment processor.





Not supported for UGP and **GSC** solutions only.

**Semi Integrated + External Pinpad (2 Piece Solution)** – a payment system keeps card data separate from the POS. The POS starts the transaction, the PINPad reads and encrypts the card details, and the processor approves the payment, sending a response back to the POS.







Supported for **UGP** solution only.

Pay at the Table (PATT) - a payment system that allows customers to pay at the table without waiting for the server to process the payment at a central point. The payment is done using mobile devices, QR codes, or portable payment devices the server brings to the table.







Supported for Worldpay solution only.

### **POS Messaging Interface (Commands)**

# **Security Commands**

Feature/Functionality List	MX Engage (SCA	4) Neo (SCA5) Notes
Register POS	$\Theta \Theta$	$\odot$
Register Encryption POS (1.0, 2.0)	$\Theta \Theta$	$\odot$
UnRegister POS	$\Theta \Theta$	$\odot$
UnRegister All POS	$\Theta \Theta$	$\odot$
Test MAC	$\Theta \Theta$	$\Theta$

### **Session/Admin Commands**

Feature/Functionality List	MX	Engage (SCA4)	Neo (SCA5)	Notes
Start Session	$\odot$	$\odot$	$\odot$	
Finish Session	$\odot$	$\odot$	$\odot$	
Set Date and Time	$\Theta$	$\Theta$	$\odot$	
Get Counter	$\Theta$	$\Theta$	$\odot$	
Lane Closed	$\Theta$	$\Theta$	$\odot$	
Apply Updates - as any pending updates from VHQ Downloads.	$\odot$	$\odot$	$\odot$	Partially supported for Engage (SCA4) and Neo (SCA5).

# **Payment Commands**

Feature/Functionality List	MX Engage Neo (SCA4) (SCA5)	Notes
Sale transaction (CAPTURE)	$\Theta \Theta \Theta$	
Refund transaction (CREDIT)	$\Theta \Theta \Theta$	
Void transaction	$\Theta \Theta \Theta$	
Post Authorization(Force) transaction	$\Theta \Theta \Theta$	
Pre Authorization transaction	$\Theta \Theta \Theta$	
Sale Completion transaction	$\Theta \Theta \Theta$	
Voice Authorization transaction	Not supported GSC solutions	for FDRC, TSYS and s.

Feature/Functionality List	MX	Engage (SCA4)	Neo (SCA5)	Notes
Balance Inquiry support for Credit, Debit, Gift, EBT cards and EMV Cards balance by setting ENABLEEMVFORBALANCE paramter.	<b>⊘</b>	<b>⊘</b>	<b>⊘</b>	
Card Validation (zero dollar authorization)	$\otimes$	$\odot$	$\odot$	Not supported for UGP and Worldpay solutions.
Token Query to retrieve card token information	$\Theta$	$\Theta$	$\Theta$	Not supported for TSYS solution.
Token Renew	$\otimes$	$\odot$	$\odot$	Supported for UGP only.
Tip Adjustment transaction (ADD_TIP)	$\otimes$	$\Theta$	$\odot$	
Reset Tip to remove tip from a specific transaction (RESET_TIP).	×	$\odot$	×	Supported for TSYS solution only.
Gift card Activation (ACTIVATE)	$\Theta$	$\Theta$	$\odot$	Not Supported for TSYS solution.
Gift card Block Activation (BLOCK_ACTIVATE)	×	$\odot$	$\odot$	Supported for Chase solution only.
Gift card add amount (ADD_VALUE)	$\Theta$	$\Theta$	$\odot$	Not Supported for TSYS solution.
Remove Value	$\Theta$	$\otimes$	$\otimes$	
Gift card Cash Out/Close/Unload at the Gift Payment Processor (GIFT_CLOSE)	$\Theta$	$\odot$	$\odot$	Not Supported for TSYS and Chase solutions.
Gift card Deactivation (DEACTIVATE)	$\Theta$	$\odot$	$\odot$	Not Supported for FDRC and TSYS solutions.
Gift card Reload/Reactivation (REACTIVATE)	<b>⊘</b>	<b>⊘</b>	<b>⊘</b>	<ul> <li>Reload/Reactivation is supported for GSC.</li> <li>In Chase solution, this is supported for Reload and not Supported for Reactivate</li> </ul>
Opening a customer tab by performing a preauthorization (OPEN_TAB)	<b>(X)</b>	$\odot$	$\odot$	Not Supported for GSC solution.
Void of a Pre Authorized transaction	$\Theta$	$\Theta$	$\odot$	
Closing a customer tab by performing a Sale Completion transaction (CLOSE_TAB)	×	$\odot$	$\odot$	Not Supported for GSC solution.
Deleting an existing Tab by Voiding/Reversing the original transaction (DELETE_TAB)	×	$\odot$	$\odot$	Not Supported for GSC solution.
Converting High Value Token to Low Value Token (TOKEN_CONVERT)	<b>②</b>	×	×	
UPDATE	$\Theta$	$\otimes$	$\otimes$	
Support for QUERY_LPTOKEN	$\Theta$	$\otimes$	$\otimes$	
Reversal transaction	×	$\odot$	$\odot$	Supported for TSYS solution only.

Neo (SCA5)

Notes

Pays down the account balance on a Private Label card (PAYACCOUNT)







#### **Secondary Port Commands**

Feature/Functionality List	MX	Engage (SCA4)	Neo (SCA5)	Notes
Cancel	$\odot$	$\odot$	$\odot$	
Reboot	$\odot$	$\Theta$	$\odot$	
Status Ability to return Battery Level as part of Status	$\odot$	$\Theta$	$\odot$	
Queries if any VHQ updates are available (ANY_UPDATES)	$\odot$	$\Theta$	$\odot$	
Query for the status of a VHQ update (UPDATE_STATUS)	$\odot$	$\Theta$	$\odot$	
Obtains the status if the terminal has any SAF transactions (GET_SAF_STATUS)	<b>(X)</b>	$\odot$	$\odot$	
CONFIRMATION command, when the application has requested for a POS confirmation on the customer ID check through an unsolicited message for an APM transaction, for example Klarna.	8	<b>⊘</b>	<b>⊘</b>	Supported for FDRC and UGP solution only.
Line Items Commands				

### Feature/Functionality List MX Engage (SCA4) Neo (SCA5) Notes

Add line items Override line items Remove line items Show line items Remove All the line items

**Additional Line Items Command Features** 

### MX Engage (SCA4) Neo (SCA5) Notes **Feature/Functionality List** Negative Value for line items

Font Colour for line items

Discount Amount Inclusion in line items

Display of Full Line-Item Screen and Split Line Item Screen (

# Store and Forward (SAF) Commands

### 

#### **Device Commands**

Feature/Functionality List	MX	Engage (SCA4)	Neo (SCA5)	Notes
Customer Survey command for 5 or 10 lines	$\Theta$	$\Theta$	$\odot$	
Customer Survey command	$\odot$	$\Theta$	$\odot$	
Get Version	$\Theta$	$\Theta$	$\odot$	
Device Name Query	$\Theta$	$\Theta$	$\odot$	
Set Device Name	$\Theta$	$\Theta$	$\odot$	
Customer Buttons	$\Theta$	$\Theta$	$\odot$	
Payment Types Query	$\Theta$	$\Theta$	<b>②</b>	
Get Param	$\Theta$	$\Theta$		
Set Param	$\Theta$	$\Theta$	$\odot$	
Display Message Full Screen	$\Theta$	$\Theta$	$\odot$	Partially supported for MX.
Support for Display QR Code commands	$\Theta$	<b>×</b>	$\odot$	
Cancel QR Code	$\Theta$	$\otimes$	<b>⊗</b>	
Display Image in Full Screen	$\Theta$	$\Theta$		
Left Panel Display	$\Theta$	$\Theta$	$\odot$	
Get Card Data Input Methods - SWIPE/TAP/INSERT and also returning track data for non PCI cards	<b>Ø</b>	$\odot$	$\odot$	
Capturing Check Box	$\Theta$	$\Theta$	$\odot$	
Support for PROVISION_PASS command	$\Theta$	×	×	
Support for QUERY_NFCINI command	$\odot$	$\otimes$	$\otimes$	

MX

Engage (SCA4)

Neo (SCA5)

Notes

Support for Cancel Display Left Panel command

 $\Theta$ 



 $oldsymbol{\otimes}$ 

**Additional Device Commands Features** 

Feature/Functionality List	MX Engage Neo (SCA4) (SCA5) Notes
Signature Cancel Button Support	$\Theta \Theta = \Theta$
Support for Acknowledgment Checkbox Option to SIGNATURE_EX	$\Theta \Theta = \Theta$
Email Capture	$\Theta \Theta = \Theta$
Support for accepting phone number, VAS data, and loyalty data when performing a card token request - specifically for PCI-compliant BIN cards related functions and avoid phone button option	$\Theta \Theta \Theta$
Support for custom background images for Charity Donation, Customer Question and Credit App forms	$\Theta \Theta = \Theta$
Emoji and Emoji Text Support for Customer Question Command	$\Theta \Theta = \Theta$
Support for Free Form Tip Entry	$\bigotimes$
Support for capturing Employee ID in Capture command	$\Theta \otimes \otimes$
Display Image Top and Middle Button Text Enhancement for Device Command	$\odot$

### **Report Commands**

Feature/Functionality List	MX Engage (SCA4)	Neo (SCA5)	Notes
Daily Summary	$\Theta\Theta$	$\Theta$	Supported for UGP solution only.
Settle Error	$\Theta\Theta$	$\odot$	Supported for UGP solution only.
Transaction Search	$\Theta\Theta$	$\odot$	Supported for UGP solution only.
Last Transaction	$\Theta\Theta$	$\odot$	
Duplicate Check	$\Theta \Theta$	$\odot$	Supported for UGP solution only.
Cutover	$\Theta \Theta$	$\odot$	Supported for FDRC solution only.
Site Totals	$\Theta \Theta$	$\odot$	Supported for FDRC solution only.
Settlement Summary	$\Theta \Theta$	$\odot$	Supported for UGP and TSYS solutions only.
Settle	$\Theta$	$\odot$	Not Supported for FDRC and GSC solutions.

# Barcode Commands (M424, M440, E280)

Feature/Functionality List	MX Engage (SCA4)	Neo (SCA5)	Notes
Configure Barcode (BCCONFIG)	$\bigotimes \bigotimes$	$\odot$	Supported for UGP and GSC solutions only.
Scan Barcode as single scan (SCAN)	$\bigotimes \bigotimes$	$\odot$	Supported for UGP and GSC solutions only.
Barcode Start as multi-scan (BARCODEASYNC_START)	$\bigotimes \bigotimes$	$\odot$	Supported for UGP and GSC solutions only.
Barcode Stop as multi-scan (BARCODEASYNC_STOP)	$\bigotimes \bigotimes$	$\odot$	Supported for UGP and GSC solutions only.
Test Barcode (BCTEST)	$\bigotimes \bigotimes$	$\odot$	Supported for UGP and GSC solutions only.
Disable All Symbology (BCDISABLEALLSYMBOLOGIES)	$\bigotimes \bigotimes$	$\odot$	Supported for UGP and GSC solutions only.
Set Symbology (BCSETSYMBOLOGY)	$\otimes \oslash$	$\odot$	Supported for UGP and GSC solutions only.

# **Payment Types**

# **Card Types /Tender Types**

Feature/Functionality List	MX	Engage (SCA4)	Neo (SCA5)	Notes
Credit card	$\Theta$	$\Theta$	$\odot$	
Debit card	$\Theta$	$\Theta$	$\odot$	
EBT (Foodstamp) card	$\Theta$	$\Theta$	$\odot$	
EBT (Cash Benefits) card	$\Theta$	$\mathfrak{D}$	$\odot$	
EBT (Voucher) card	<b>②</b> (	<b>⊘</b>	$\odot$	Not Supported for UGP and Worldpay solutions.
Gift card	$\Theta$	$\Theta$	$\odot$	Not Supported for TSYS solution.
Private Label CAPOne Synchrony ADS	<b>②</b> (	$\Theta$	$\odot$	Supported for Worldpay solution only.
EMV Support for FSA Transactions	<b>②</b> (	$\Theta$	$\odot$	Not Supported for TSYS and GSC solutions.
Merchandise Credit card	$\Theta$	$\Theta$	$\Theta$	Supported for UGP solution only.
Support for Fleet cards	<b>②</b> (	$\Theta$	$\odot$	Supported for Worldpay and GSC solutions only.

	Feature/Functionality List	MX	Engage (SCA4)	Neo (SCA5)	Notes
S	Support for Discount on Cash transaction	$\Theta$	×	×	
	CHECK as payment type for Sale completion transaction	$\Theta$	$\odot$	$\odot$	Supported for UGP and GSC solutions only.
	CHECK_SALE as payment type for Check Processing	$\Theta$	$\Theta$	$\odot$	Supported for UGP and GSC solutions only.
(	CHECK_AUTH	$\Theta$	$\odot$	$\odot$	Supported for UGP solution only.
	CHECK_VERIFY as payment type for Check Processing	$\Theta$	$\odot$	$\odot$	Supported for UGP solution only.

# **Alternate Payment Methods (APM) Transactions**

	Feature/Functionality List	MX Engage (SCA4) Neo (SCA5) N			
Alipay		$\bigotimes \bigotimes$	$\odot$		
WeChat		$\bigotimes \bigotimes$	$\Theta$		
Affirm		$\bigotimes \bigotimes$	$\odot$		
Klarna		$\bigotimes \bigotimes$	$\odot$		
PayPal		$\bigotimes \bigotimes$	$\odot$		
Venmo		⊗ ⊗	$\odot$		
Linked Re	fund (CTROUTD Based Refund for A	APM) 🕱 🕢	$\bigcirc$		

# **Message Encryption Schemes**

Feature/Functionality List	MX Engage (SCA4)	Neo (SCA5)	Notes
VCL/VSP, VSP(EPARAM) Encryption	$\Theta$	$\odot$	Supported for FDRC, UGP and Chase solutions only.
RSA/TRA Encryption	$\Theta \Theta$	$\odot$	Supported for FDRC solution only.
Voltage Encryption	$\otimes$	$\odot$	Supported for TSYS solution only.
ADE Encryption Support. This is applicable for SSI only (Secure Services Interface - the messaging between SCA application and the host).	$\Theta \Theta$	$\odot$	Not Supported for FDRC, TSYS and Chase solutions.
AES-DUKPT Encryption	⊗ ⊗	$\odot$	Supported for FDRC, UGP and Worldpay solutions only.

Engage (SCA4)

Neo (SCA5)

**Notes** 

**NOE** Encryption



#### **Communication Network Features**

#### **POS Communication Network Modes**

Feature/Functionality List

**Engage** MX (SCA4)

Neo (SCA5)

**Notes** 

TCP/IP Ethernet/Wireless (WiFi)

WebSockets

Bluetooth -

• BT-PAN (Bluetooth Personal Area Network for Mobile or Tablet POS)



• Regular BT for Windows/MAC/Android



Serial Over USB

IP Over USB





#### **Host Communication Network Modes**

Feature/Functionality List MX Engage (SCA4) Neo (SCA5)

**Notes** 

Ethernet



Wireless (WiFi)





**GPRS** 



IP Over USB





Dial Up

Supported for TSYS solution only.

### **Network Configuration Set**

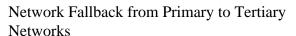
**Feature/Functionality List** 

**Engage** MX (SCA4)

Neo (SCA5)

**Notes** 

WebSockets Network - Priority based Switching











Feature/Functionality List	IVI X	Engage (SCA4)	Neo (SCA5)	Notes
Network Setup at initialization flow using CCP (Communication Panel)integration	⊗ (	9	$\odot$	Not Supported for TSYS solution.
Configuration of Network parameters using VHQ	⊗ (	9	$\Theta$	
Configuration of Network Parameters using SET_PARAM command	<b>⊗</b> •	9	$\odot$	
Configuration of Network Settings through Configuration Menu	<b>⊗</b> €	9	$\odot$	
SSL Policy Overriding for the Customers using IP address instead of Hostname	<b>⊗</b> €	9	$\odot$	Supported for UGP and Worldpay solutions only.
Proxy Settings for Host communication at Merchant environment	<b>⊗</b> €	9	$\odot$	Supported for Worldpay solution only.

# **Receipt Management**

Feature/Functionality List	MX	Engage (SCA4)	Neo (SCA5)	Notes
Printing Merchant Copy or Customer Copy		$\Theta$	$\odot$	
Enabling or disabling printing receipt		$\Theta$	$\odot$	
Returning receipt back to POS and printing in terminal or just returning to POS		$\odot$	$\odot$	
Configuration of Header/Footer Details on the receipt		$\Theta$	$\Theta$	
Ability to return Line Items on the receipt		$\odot$	$\odot$	
Configuration of printing of Cardholder name on receipt		$\Theta$	$\odot$	
Configuration of printing Terminal ID, Merchant ID, Client ID details on receipt		$\odot$	$\odot$	
Receipt Printing for Decline or Error transactions on receipt		$\Theta$	$\odot$	
Prompt to Print Customer Copy in the Standalone mode		$\odot$	$\odot$	
Masking of Account Number on the receipt		$\odot$	$\odot$	
Printing of Signature lines on the receipt for EMV Transactions (by setting CTLSIGLINE and CNTSIGLINE parameters)		$\odot$	$\odot$	Supported for Worldpay solution only.
Enable Gratuity guidelines on receipt		$\odot$	$\odot$	-

### Wallets

**Feature/Functionality List** 

MX Engage (SCA4) Neo (SCA5) Notes







#### MX Engage (SCA4) Neo (SCA5) Notes

Google VAS







### **Commerce Platform Trigger Support**

### **Feature/Functionality List**

MX Engage (SCA4)

Neo (SCA5) Notes

Triggers API - Suppport for the list of CP Triggers as Notifications and Requests (CP\_SYSTEM\_REQUESTS\_XXXX and CP\_SYSTEM\_RECEIVES\_XXXX)







**Notes** 

### **Preamble/Initialization Process**

Feature/Functionality List	MX	Engage (SCA4)	Neo (SCA5)	Notes
Device Registration / Host Registration with MID/TID	<b>Ø</b>	$\odot$	$\odot$	Supported for FDRC, Chase and GSC solutions only.
CAPK Download	$\odot$	$\odot$	$\odot$	Supported for FDRC solution only.
MAC Key Download	$\otimes$	$\odot$	$\odot$	Not Supported for TSYS solution.
Batch DB Purge - for Authorization and Sale - deletion of Records in database after configured days	<b>(X)</b>	$\Theta$	$\odot$	
PropertiesDB Corruption Check and Backup	$\otimes$	$\odot$	$\odot$	
Batch DB Health Check	$\otimes$	$\Theta$	$\odot$	
Test Sale And Test Void	$\odot$	$\Theta$	$\odot$	
Merchant Settings Configuration during startup	$\Theta$	$\Theta$	$\odot$	
BIN update for VCL	$\odot$	$\odot$	$\odot$	
Network Configuration	$\odot$	$\odot$	$\odot$	
VCL Registration/PKI/TRA Key Download	$\odot$	igotimes	igotimes	
VHQ Device ID Prompt to be sent during the VHQ communication	<b>×</b>	$\odot$	$\odot$	

### **Device Boarding Support**

Feature/Functionality List MX Engage Neo (SCA4) (SCA5)

VHQ Device ID Prompt On Device







Feature/Functionality List	MX Engage (SCA4)	Neo (SCA5)	Notes
Sending Device ID via SET_PARAM command	$\bigotimes \oslash$	$\Theta$	
Device Registration and VSP Registration via SET_PARAM command	$\Theta$	$\odot$	Supported for FDRC and GSC solution only.
Pre-Boarding of Terminal on VHQ	$\Theta \Theta$	$\odot$	

# **Canadian Feature Set**

Feature/Functionality List	MX	Engage (SCA4)	Neo (SCA5)	Notes
Canadian Support (MACing) - Worldpay Canadian Processing	<b>②</b> (	$\odot$	$\odot$	Not Supported for TSYS solution.
DUKPT Macing Support Configuration - MAC_METHOD	<b>X</b>	$\odot$	$\odot$	Supported for FDRC solution only.

# **Payment Processing Set**

Feature/Functionality List	MX	Engage (SCA4)	Neo (SCA5)	Notes
MACLess Interac Configuration - MAC_METHOD	×	$\odot$	$\odot$	Not Supported for TSYS solution.
Dual Language	×	$\odot$	$\odot$	Not Supported for TSYS solution.
Non QuickChip (Full EMV Flow) Configuration - quickchip	$\odot$	$\Theta$	$\odot$	Not Supported for TSYS solution.
BIN Look up(CDT File) to determine Card types and details	$\odot$	$\odot$	$\odot$	
Honoring PAYMENT_TYPE/PAYMENT_TYPES field to restrict the current transaction to that payment field	$\odot$	$\Theta$	$\odot$	
Signature Capture During the Transaction Flow For Approved Transactions Initiating Void If the Signature is Cancelled	$\odot$	$\Theta$	$\odot$	
Token renewal as part of the payment command	<b>(X)</b>	$\Theta$	$\odot$	Supported for UGP solution only.
AVS(Zip/Address) support for Manual transactions	$\odot$	$\odot$	$\odot$	
AVS and CVV Validation Based on Host Response	<b>(X)</b>	$\Theta$	$\Theta$	Supported for UGP and GSC solutions only.
Support for Quick Chip EMV	$\odot$	$\odot$	$\odot$	Not Supported for GSC solution.
Preferred AID(Preferring particular AID over others)	$\odot$	$\odot$	$\odot$	
Kernel Switching - Kernel Configuration (NOCVM)	<b>⊘</b>	<b>⊘</b>	<b>⊘</b>	Partially supported for Engage (SCA4) and Neo (SCA5).

Feature/Functionality List	MX	Engage (SCA4)	Neo (SCA5)	Notes
Support for Dynamic Currency Conversion (DCC) Transactions	$\Theta$	$\odot$	$\odot$	Supported for UGP solution only.
Support for DCC Auto Opt in for Refund and DCC Transactions is allowed to process in offline mode	<b>(X)</b>	$\Theta$	$\odot$	Supported for UGP solution only.
Support for DCC Transactions Store and Forward (SAF)	×	$\odot$	$\odot$	Supported for UGP solution only.
DCC Prompting Based on Host Response (DCC2PASS)	<b>×</b>	$\odot$	$\odot$	Supported for UGP solution only (with Worldpay end Host).
DCC Support Configuration Per Transaction Type and Card Entry Mode	×	$\odot$	$\odot$	Supported for UGP solution only.
Duplicate Transaction Check	$\Theta$	$\Theta$	$\odot$	
Support for enhanced Training Mode	$\odot$	$\odot$	$\odot$	
Support for External PINPad pushing EMV configuration from IPP to EPP SSL based External PINPad	<b>(</b>	$\odot$	$\odot$	Supported for FDRC, UGP and TSYS solutions only.
Application Control for VHQ downloads	$\Theta$	$\odot$	$\odot$	, and the second
Support for Network Brand Multi-Sensory Advertising	$\Theta$	$\otimes$	$\otimes$	
Support for Level-II Purchase cards	$\odot$	$\odot$	$\odot$	
Support for Level 3 Data Passthrough	$\odot$	$\otimes$	$\otimes$	
Advance DDK Functionality	$\odot$	×	$\otimes$	
Toggling url (primary to secondary, vice versa) after X response timeouts	$\odot$	×	×	
Switch to primary url from secondary url after x transactions	$\Theta$	$\odot$	$\odot$	Supported for GSC solution only.
Support for TOR (Time Out Reversal) - Host Specific	<b>②</b>	<b>⊘</b>	<b>⊘</b>	Supported for Canadian Debit only in UGP solution.
Auto Settlement(Trigger the Settlement at configured Time)	<b>⊘</b>	<b>⊘</b>	<b>⊘</b>	<ul> <li>Partially supported for MX.</li> <li>Not Supported for GSC solution (Engage and Neo).</li> </ul>
Auto Cashout of the Gift Card	<b>⊘</b>	<b>⊘</b>	<b>⊘</b>	Supported for FDRC, UGP and Chase solutions.

Feature/Functionality List	MX	Engage (SCA4)	Neo (SCA5)	Notes
Pin Bypass	$\odot$	$\odot$	$\odot$	
Token Based transaction support	$\odot$	$\Theta$	$\odot$	Not Supported for TSYS solution.
Encryption of Account Number From POS ENCRYPT field in POS request	<b>②</b>	$\Theta$	$\odot$	
Pre-Swipe/Pre-Dip Support - Ability to capture card details before tendering the Total	$\odot$	$\Theta$	$\odot$	
Support for Early Card Capture	$\odot$	$\odot$	$\Theta$	
Early Card Capture Extension for EMV and Other commands	$\otimes$	$\odot$	$\odot$	
Store card details of current Sale transaction if it gets declined for Force(Post Auth)	$\Theta$	$\odot$	$\odot$	Not Supported for UGP solution.
Buffering Line Item commands while Terminal is busy reading the pre-swipe/dip card	<b>②</b>	$\odot$	$\odot$	Supported for Worldpay and Chase solutions.
Buffering Payment Command while Terminal is busy reading the pre-swipe/dip card	$\Theta$	$\Theta$	$\odot$	
Quick chip - consumer prompting during EMV transaction	$\odot$	$\odot$	$\odot$	
Non Quick chip - consumer prompting during EMV transaction	$\odot$	$\odot$	$\odot$	
BAPI Support	$\odot$	$\otimes$	$\otimes$	
SCA to VHQ Transaction and Batch Reporting	$\odot$	×	$\otimes$	
Displaying transaction type on the screen	$\odot$	$\Theta$	$\odot$	
Validating encrypted card details	$\odot$	$\odot$	$\odot$	
Card Token - Kohl's Track Data Cross Check	$\odot$	$\otimes$	$\bigotimes$	
REF_TROUTD based transaction support	$\odot$	$\odot$	$\odot$	Supported for GSC solution only.
Capturing VAS data/EMAIL/TIP as part of the transaction flow	<b>②</b>	$\odot$	$\odot$	Partially supported for Engage (SCA4) and Neo (SCA5).
Auto last transaction	$\odot$	$\Theta$	$\odot$	Supported for UGP solution only.
Partial EMV transaction support (Force, Token Query Transaction)	$\Theta$	$\Theta$	$\odot$	·
ACK, NAK protocol with SSI host	$\odot$	$\otimes$	$\otimes$	
Contactless to contact fallback based on host response code	$\odot$	$\Theta$	$\odot$	
Sending captured signature to payment host	<b>②</b>	<b>×</b>	×	

Feature/Functionality List	MX	Engage (SCA4)	Neo (SCA5)	Notes
EMV card language support	<b>②</b>	$\odot$	$\odot$	
EMV AID based payment type selection	$\odot$	$\odot$	$\odot$	
Configurable tender type selection screen before card read screen	<b>②</b>	×	×	
MSR PIN Debit Encouragement	$\odot$	⊗	$\otimes$	
CVV/EXP/ZIP code prompt in manual entry transaction based on CDT/Config/POS request. ZIP Prompt is not based on CDT		$\Theta$	$\odot$	
Controls CVV Bypass for all card types using ALLOWCVVBYPASS parameter.	$\otimes$	$\Theta$	$\odot$	
Controls Expiry prompt for Private Label Specifically using PRIVATELABELEXPREQD parameter.	$\otimes$	$\Theta$	$\odot$	
Controls Expiry prompt for Merchandise Credit Specifically using MERCHCREDITEXPREQD parameter.	$\otimes$	$\odot$	$\odot$	
Controls CVV prompt for Private Label Specifically using PRIVATELABELCVVREQD parameter.	$\otimes$	$\odot$	$\odot$	
Control Expiry prompt for Gift Cards Specifically using GIFTCARDEXPREQD parameter.	$\otimes$	$\odot$	$\odot$	
Control CVV prompt for Token Query using PROMPTCVVFORTOKENQUERY parameter.	$\otimes$	$\odot$	$\odot$	
Control CVV prompt for Gift Cards Specifically using GIFTCARDCVVREQD parameter.	$\otimes$	$\odot$	$\odot$	
Control CVV prompt for Refund using ENABLECVVPROMPTFORREFUND parameter.	<b>×</b>	$\odot$	$\odot$	
Virtual Gift Card PIN Prompt Enhancement	<b>②</b>	$\odot$	$\odot$	Supported for Worldpay and GSC solutions only.
Honouring cash back amount from POS	0	$\odot$	$\odot$	
Honouring TIP amount from POS	$\odot$	$\Theta$	$\odot$	
Service code check fallback based on configuration	$\Theta$	$\odot$	$\odot$	9
GIFT refund support	$\odot$	$\odot$	$\odot$	Supported for Worldpay and GSC solutions only.
Capturing INTERAC account type	$\Theta$	$\odot$	$\odot$	Not Supported for TSYS solution.
KHOLS token query based transactions	$\odot$	×	$\otimes$	
Padding 'F' to KSN based on configuration	$\Theta$	$\Theta$	$\odot$	
PINLESS DEBIT flag based on configuration	<b>⊘</b>	<b>⊘</b>	<b>⊘</b>	Not Supported for TSYS and Chase solutions.

Feature/Functionality List	MX	Engage (SCA4)	Neo (SCA5)	Notes
VSP registration as part of the transaction based on host response code	<b>②</b>	×	×	
TruRatings Interface support	<b>⊘</b>	<b>⊘</b>	<b>⊘</b>	Supported as a CP APP, however not supported for TSYS solution.
TKN_PROCESS support (Tokenization) in the SSI REQUEST	<b>Ø</b>	$\Theta$	$\odot$	Supported for UGP solution only.
Mx Parity - SCA application does not show Negative sign for refund transaction	$\Theta$	×	×	·
Partial Authorization and Partial Approval Confirmation Screen	$\odot$	$\Theta$	$\odot$	
Online PIN Retry Based on Host Response	$\odot$	$\odot$	$\odot$	
Capturing card details for debit void transactions	$\Theta$	$\Theta$	$\odot$	Not Supported for GSC solution.
PAYMENT_SUBTYPE support for GIFT transactions	$\Theta$	$\Theta$	$\bigcirc$	Supported for UGP solution only.
Capture PIN for Contactless debit and EBT refund transactions irrespective of CVM (based on configuration)	<b>Ø</b>	$\Theta$	$\Theta$	Not Supported for Chase solution.
EMV fallback to All Entry Modes to Swipe Only	$\odot$	$\odot$	$\odot$	
POS_RECON field support	$\odot$	$\odot$	$\odot$	
MSR PIN Debit enhancements	$\odot$	×	×	
EMV Signature Capture Enhancements - Ability to skip signature below a certain limit	<b>⊘</b>	$\odot$	$\odot$	Partially Supported for Engage (SCA4) and Neo (SCA5)
Support for Private label Payments to Verifone Gateway or via Worldpay Direct and Additional Private Label, AVS Enhancements.	<b>⊘</b>	$\odot$	<b>⊘</b>	Supported for UGP, GSC and Worldpay Direct solutions only.
Visa Network Name in Receipt	$\odot$	×	×	
SCA to VHQ Field Expansion	$\odot$	×	×	
Add TOKEN_TYPE tag to support WP low value tokens (Worldpay Specific)	<b>Ø</b>	$\Theta$	$\odot$	Supported for Worldpay solution only.
Token Query MOD-10 Enhancement	$\odot$	$\odot$	$\odot$	
CREDIT CONVERSION - An option, where the processors converts the signature request to a PIN less debit request based on certain criteria in the transaction request. (Worldpay specific).		<b>⊘</b>	<b>⊘</b>	Supported for Worldpay solution only.
CAPK Download Throttling (Fiserv Specific)		$\odot$	$\odot$	Supported for FDRC solution only.

# **Unsolicited Message to POS**

Feature/Functionality List	MX Engage (SCA4)	Neo (SCA5)	Notes
When consumer option is selected on left panel	$\odot$	×	
When pre-swiped/dipped/tapped	$\odot$	$\otimes$	
When card details are captured during transaction	$\Theta \Theta$	$\odot$	Not Supported for Worldpay and Chase solutions.
When transaction is in flight	$\Theta \Theta$	$\odot$	Not Supported for Worldpay and Chase solutions.
Detailed status of the transaction at each step of the flow - Event Notification POS Port Expansion	$\Theta \Theta$	<b>⊘</b>	Partially supported for Engage (SCA4) and Neo (SCA5)
Unsolicited Messages Enhancement for Headless Mode operation in Ux SCA Support (UX301)	$\bigotimes \oslash$	$\odot$	

# **Store and Forward Processing**

Feature/Functionality List	MX	Engage (SCA4)	Neo (SCA5)	Notes
Posting SAF transactions at Background	$\odot$	$\odot$	$\odot$	
SAF on Response Timeout/Support SAFing transaction during response timeout scenario	<b>⊘</b>	$\Theta$	$\Theta$	
Host Forced SAF Mode	$\odot$	×	×	
POS Forced SAF Mode		×	×	
SAF Throttling	$\Theta$	$\odot$	$\odot$	Supported for FDRC, UGP and GSC solutions only.
Offline Approval on specific Host result/response codes	$\Theta$	$\Theta$	$\odot$	Supported for FDRC, UGP and GSC solutions only.
SAF of Online PIN	$\Theta$	$\Theta$	$\odot$	Supported for FDRC and UGP solutions only.
SAF Purge	$\odot$	$\Theta$	$\odot$	Not Supported for TSYS solution.
SAFing of TOR /SSI URL FailOver and SSI TOR and SAF VOID Enhancement Logic	<b>Ø</b>	$\Theta$	<b>⊘</b>	This is a Host specific functionality and supported for FDRC solution only.
Edit SAF	×	$\odot$	$\odot$	Supported for UGP solution and in GSC solution, only for PRE Auth functionality.
Posting SAF Transactions to SAF URL	<b>(</b>	×	×	

Feature/Functionality List	MX	Engage (SCA4)	Neo (SCA5)	Notes
SAF EMV online PIN transactions	<b>⊘</b>	<b>⊘</b>	<b>⊘</b>	For Engage (SCA4) and Neo (SCA5), if SAF is enabled, then it is Kernel switch. This is supported for FDRC and UGP solution only.
SAF of GIFT Transactions	$\odot$	$\Theta$	$\Theta$	Not Supported for TSYS solution.
Configuring SAF limits per card types	$\odot$	×	$\otimes$	
Re-Posting Declined SAF Transactions		$\Theta$	$\odot$	
Support for Storing DCC Transaction in SAF		$\odot$	$\odot$	
Disable Pinless Debit For SAF Transaction Forwards		$\odot$	$\odot$	
SAF Based on Command Type Support		$\odot$	$\odot$	
Avoid Online PIN Prompt During Terminal Offline Situation		$\odot$	$\odot$	

# **Media Files and Functionality Specifications**

Feature/Functionality List	MX	Engage (SCA4)	Neo (SCA5)	Notes
Full Screen Image on Idle Screen (Idlemediamode)	$\Theta$	$\Theta$	$\odot$	
Full Screen Video on Idle Screen (Idlemediamode)	$\odot$	$\Theta$	$\odot$	
Video + Banner Support	$\Theta$	$\odot$	$\Theta$	Supported for GSC solution only.
Full Screen Animation Idlemediamode	$\Theta$	$\odot$	$\odot$	
Left panel image on Line Item Screen	$\Theta$	$\odot$	$\odot$	
Left panel Animation on Line Item Screen	$\Theta$	$\odot$	$\odot$	
Screen Saver Functionality	<b>(X)</b>	$\Theta$	$\odot$	Supported in Standalone mode for all solutions.
Title Logo / title banner		$\odot$	$\Theta$	
Background of device commands		$\odot$	$\odot$	
Welcome Screen Branding		$\odot$	$\odot$	

# **On Device Configuration**

SCA Configuration Menu	$\bigotimes \oslash$	igotimes
Four Corner Touch to access Config Menu	$\odot$	$\odot$
BT Pairing Short Keys (5+Enter)	$\odot$	$\odot$
Device Information Screen (1+Enter)	$\odot$	$\odot$
ADK COM configuration via SCA Configuration menu	u 🕢	$\odot$
TMS Operations - Call TMS	$\odot$	$\odot$
Initiate Heartbeats Through SCA Config Menu	$\odot$	$\odot$
Accessing MAC menu through Configuration menu	$\odot$	$\odot$
Configuration of Commerce Application Settings	$\bigcirc$	$\odot$

# **Terminal Management System (TMS)**

#### Feature/Functionality List MX Engage (SCA4) Neo (SCA5)

Notes

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Vericentre	$\bigotimes \bigotimes$	$\odot$	Supported for FDRC and TSYS solutions only.
VHQ	$\Theta \Theta$	$\odot$	
Parameter Downloads	$\Theta \Theta$	$\odot$	
Content Downloads	$\Theta \Theta$	$\odot$	
Software Downloads	$\odot$	$\odot$	

# **Standalone Mode Functionalities**

Feature/Functionality List	MX Engage (SCA4)	Neo (SCA5)	Notes
Keyboard Lock	$\bigotimes \bigotimes$	$\odot$	Not Supported for FDRC, UGP and GSC solutions.
Commands based Authorization (Password for all transactions)	$\bigotimes \bigotimes$	$\odot$	Supported for UGP solution only.
Batch Review	$\bigotimes$	$\odot$	Supported in FDRC only for Deletion functionality. Not supported for UGP and GSC solutions.
Reprint	$\bigotimes \bigcirc$	$\odot$	Not supported for UGP and GSC solutions.
SAF Offline Forward	$\bigotimes \bigcirc$	$\odot$	Not supported for UGP solution.
Phone Order	$\bigotimes \bigcirc$	$\odot$	Not supported for UGP and GSC solutions.
Clerk Management	$\bigotimes \bigotimes$	$\odot$	Not supported for UGP and GSC solutions.

Feature/Functionality List	MX	Engage (SCA4)	Neo (SCA5)	Notes
Clear Batch	<b>(X)</b>	$\odot$	$\odot$	Not supported for FDRC, UGP and GSC solutions.
Unadjusted Tip Report	<b>(X)</b>	$\odot$	$\odot$	Supported for FDRC and Worldpay solutions only.
Open Tab Report	$\otimes$	$\Theta$	$\odot$	Not supported for UGP and GSC solutions.
Card Totals Report		$\Theta$	$\odot$	
Detail Report		$\Theta$	$\odot$	
Clerk Detail and Clerk Total Report		$\Theta$	$\odot$	
Terminal Parameter Report		$\Theta$	$\odot$	
IRS Tip Report	<b>(X)</b>	$\odot$	$\odot$	Supported for FDRC and TSYS solutions only.
Clerk Totals/Detail Report	$\otimes$	$\odot$	$\odot$	Not Supported for UGP and GSC solutions.
Batch History Report	$\otimes$	$\odot$	$\odot$	Not Supported for UGP and GSC solutions.
Shift Processing	<b>(X)</b>	$\odot$	$\odot$	Not Supported for UGP, TSYS and GSC solutions.
New Card on Close Tab/Completion	$\otimes$	$\Theta$	$\odot$	Not Supported for UGP and GSC solutions.
Password Levels	×	$\odot$	$\odot$	Not Supported for FDRC, UGP and GSC solutions.
Cashback Limit with Password	$\otimes$	$\Theta$	$\odot$	Supported for Chase solution only.
Sale Limit with Password	$\otimes$	$\Theta$	$\odot$	
Refund Limit with Password	$\otimes$	$\Theta$	$\odot$	Supported for Chase solution only.
Set time with SCA	<b>(X)</b>	$\odot$	$\odot$	Not Supported for FDRC, UGP and GSC solutions.
PLCC Disclaimer and Confirmation Flow for Standalone		$\odot$	$\odot$	
Protect Manual Entry Transactions with password		$\odot$	$\odot$	

# **Card Rages Features**

### **BIN Table Controls**

Feature/Functionality List

MX Engage (SCA4) Neo (SCA5) Notes

Payment Type (For NON EMV Cards)





### **Feature Controls per BIN range**

### **Feature/Functionality List**

MX

Engage (SCA4)

Neo (SCA5)

Notes

CVV Prompt Logic for Keyed (Control Prompting for Card Not Present or Card Present Scenarios)





### **Control with PMEBIN.db**

Feature/Functionality List	MX	Engage (SCA4)	Neo (SCA5)	Notes
Controlling Expiration Date Check (Non EMV Cards)	(	<b>9</b>	$\odot$	
Controlling LUHN Check	(	<b>9</b>	$\odot$	
Manual Entry Support	(	<b>2</b>	$\Theta$	
PCI BIN Marker (Allowing Gift Cards to return full Track Back to POS)	(	9	$\odot$	
PIN Entry Control (NON EMV Cards)	(	<b>9</b>	$\odot$	
Canadian Account Type Prompt (Savings/Checking Prompt)	(	<b>9</b>	$\odot$	
Contactless Receipt Limit Amount	(	<b>2</b>	$\odot$	
Signature Limit	(	9	$\odot$	
Offline Transaction Limit	(	<b>2</b>	$\odot$	

### **Other Features**

Feature/Functionality List	MX	Engage (SCA4)	Neo (SCA5)	Notes
Surcharge		$\odot$	$\odot$	Not Supported for UGP, TSYS and GSC solutions.
TIP feature, which includes Tip Prompt, TIP Configurations in Percentage or Whole Amounts and Tip Prompts Based on Transaction Types - Custom Tipping Functionality	<b>⊘</b>	<b>⊘</b>	<b>⊘</b>	Supported for GSC solution only.
Tax Prompt		$\odot$	$\odot$	Not Supported for GSC solution.
Cashback Prompt / Allowing OTHER Button for Cashback Selection	$\Theta$	$\odot$	$\odot$	
Split Tender	$\Theta$	$\odot$	$\odot$	Not Supported for TSYS and GSC solutions.
Amount confirmation	$\Theta$	$\odot$	$\odot$	Not Supported for GSC solution.

Feature/Functionality List	MX	Engage (SCA4)	Neo (SCA5)	Notes
Timeout Control For Different Commands (TIMEOUT_ERROR, TIMEOUT_INPUT, TIMEOUT_SUCCESS)		$\odot$	<b>⊘</b>	Supported for UGP and GSC solutions only.
Signature Limit	$\odot$	$\odot$	$\odot$	
Merchant Settings Configuration during startup	$\Theta$	$\odot$	<b>⊘</b>	Not Supported for UGP and TSYS solutions.
Fraud Control		$\Theta$	$\Theta$	
Avoid Transactions Below particular Battery % (battery Threshold) / THRESHOLD configuration		$\odot$	$\odot$	Not Supported for UGP and TSYS solutions.
Negative Batch Settlement NEGATIVEBATCHSETTLE		$\Theta$	$\odot$	Supported for FDRC and Chase solutions only.
Network Switching		$\odot$	$\odot$	
Host Keep alive support	<b>②</b>	<b>⊘</b>	<b>⊘</b>	Supported for FDRC, Worldpay and Chase solutions only.
VCL BIN Update	<b>②</b>	<b>⊘</b>	$\odot$	Not Supported for TSYS, Worldpay and GSC solutions.
Customized audio on card removal prompt	$\Theta$	$\otimes$	$\otimes$	
Custom Audio Token for errortone, normaltone & declinetone		$\Theta$	$\odot$	
EMV Configuration report	<b>⊘</b>	<b>⊘</b>	<b>⊘</b>	Supported for Worldpay and Chase solutions and Partially Supported for other solutions.
SCA Applogging	$\odot$	$\odot$	$\odot$	
Identify Card Removal In Between Transaction (R01)	$\Theta$	$\otimes$	$\otimes$	
Credit App Command Encryption Support		$\odot$	$\odot$	
Credit App Field Reprompting /SCA Credit App Command with re-confirmation prompt support for prompt data	<b>(X</b> )	$\odot$	$\odot$	Not Supported for TSYS and Chase solutions.
Sending Unsolicited Message to POS when the Battery drops below a particular Limit		$\odot$	$\odot$	
Battery Low Warning on screen	×	$\Theta$	$\odot$	Not Supported for TSYS and Chase solutions.
Bluetooth POS Connected Information on Screen	×	$\Theta$	$\odot$	Supported for UGP solution only.
VHQ Device Movement Alerts Based on LANE ID and STORE ID from POS	×	$\Theta$	$\odot$	•
User Defined Catalog Update for UI and Receipt Printing	$\otimes$	$\odot$	$\odot$	

Feature/Functionality List	MX	Engage (SCA4)	Neo (SCA5)	Notes
Bluetooth Pairing Enhancements and UI updates for BT	$\otimes$	$\odot$	$\odot$	Supported for UGP solution only.
Excess Tip Confirmation Control		$\Theta$	$\odot$	
Pay With Points (Pay by Rewards)	<b>(X)</b>	$\odot$	$\odot$	Supported for UGP solution only.
Preset Tip Functionality		$\Theta$	$\odot$	
Call For Authorization with host response codes		$\Theta$	$\odot$	
VHQ Device Alerts During POS Disconnections		$\Theta$	$\odot$	
VHQ Custom Attributes based on configured fields / Posting Specific Parameters from terminal to VHQ		<b>②</b>	<b>⊘</b>	
RAW Signature Format Support		$\Theta$	$\odot$	
SCA Single Tap Functionality (Mandate in EU Regions)		<b>999</b>	$\odot$	
Custom Tipping for Restaurant		$\Theta$	$\odot$	
Stored Credentials / Credential on File		$\Theta$	$\odot$	
Pitstop Anywhere Support		$\Theta$	$\odot$	
Device Info via QR Code		$\odot$	$\odot$	
Terminal Languages Support		<b>⊘</b>	<b>⊘</b>	
Last Transaction feature, includes validation of the Last Transaction with the Gateway and return the locally stored Data and returning the SAF record		<b>⊘</b>	<b>⊘</b>	
Transaction Performance Metric		$\Theta$	$\odot$	
Health Monitor For Device Diagnostics		$\Theta$	$\odot$	
Purchase BIN Indicator Back to POS (CMRCL_FLAG)		$\Theta$	$\odot$	
Debit Optimization (Worldpay Specific)	<b>×</b>	$\Theta$	$\odot$	Supported for Worldpay solution only.
Allow POS to Pair with Terminal without entering the Entry Code. (AutoPair Function)		$\odot$	$\odot$	

Feature/Functionality List	MX	Engage (SCA4)	Neo (SCA5)	Notes
Embossed Number Calculation and returning back to POS		$\Theta$	$\Theta$	
Restricting EMV Fallback To Specific Payment Types		$\Theta$	$\odot$	
Separate Settlement URL Configuration	$\otimes$	$\Theta$	$\odot$	Supported for Chase solution only.
Ability to Post EMV Transactions as CREDIT or DEBIT based on presence of PIN		$\Theta$	$\odot$	
Ability to Prompt CREDIT/DEBIT card Types for EMV Cards based on specific AID		$\Theta$	$\odot$	
Ability to Treat Offline PIN CVM cards as Debit for AUTOSELECT Payment Type		$\odot$	$\odot$	
NON ISO EBT Card Acceptance		$\Theta$	$\odot$	
Disable The Contactless Acceptance On Preswipe Screen		0000	$\odot$	
Disable Contactless Acceptance for Refund Transaction		$\odot$	$\odot$	
Disable Contactless Acceptance for Gift Transactions		$\Theta$	$\odot$	
Returning Response Text To POS in terminal Language / Allows POS to display the Response Text in configured language of terminal		$\odot$	$\odot$	
Controlling the Format of the Amount Displayed on the terminal and Format being returned in Receipt / Currency Symbol Configuration Support		$\odot$	$\odot$	
Functionality to Return the Unmasked PAN for the NON PCI cards.		$\Theta$	$\odot$	
Allow Swiping of EMV Cards with Service code 2xx or 6xx / Configurable in CAMCORE based on BIN ranges		$\Theta$	$\bigcirc$	
Returning AUTH_REF_NUM field back in the POS	_	<u> </u>	<u> </u>	Supported for Worldpay
Response and Printing on the Receipt (WP specific, mapped to response field 105.3 of WorldPay response)	×	$\otimes$	$\bigcirc$	solution only.

# **Supported EMV AID**

Feature/Functionality List	MX Engage (SCA4)	Neo (SCA5)	Notes
MasterCard Global Credit (A0000000041010)	$\odot$	$\odot$	
Maestro (A000000043060)	$\odot$	$\odot$	
Maestro US Common Debit (A0000000042203)	$\odot$	$\odot$	
Visa Global Credit (A000000031010)	$\odot$	$\odot$	

Feature/Functionality List	MX	Engage (SCA4)	Neo (SCA5)	Notes
Visa Interlink (A000000033010)		$\Theta$	$\Theta$	
VIsa US Common Debit (A0000000980840)		$\odot$	$\odot$	
VIsa Electron (A000000032010)		$oldsymbol{arnothing}$	$\Theta$	
Amex Global Credit (A0000002501)		$\Theta$	0000	
Amex US Common Debit (A0000002504)		$\odot$	$\Theta$	
Discover Credit (A0000001523010)		$\Theta$	$\Theta$	
DIscover US Common Debit (A0000001524010)		$\odot$	$\odot$	
UnionPay Debit (A000000333010101)		$\odot$	$\Theta$	
UnionPay Credit (A000000333010102)		$\odot$	000	
UnionPay Quasi (A000000333010103)		$\Theta$	$\odot$	
UnionPay US Common Debit (A000000333010108)		$\odot$	$\odot$	
DNA (A0000006200620)		$\Theta$	$\odot$	
Interac (A0000002771010)		$\Theta$	$\odot$	
JCB (A000000651010)		$\odot$	$\Theta$	
Voyager (A0000000049999C00016)		$\odot$	$\odot$	Supported for Worldpay and GSC solutions only.
Wex (A0000007681010)		$\odot$	$\odot$	Supported for Worldpay and GSC solutions only.
EBT (A000000044542)		$\odot$	$\odot$	