

Oracle® Retail EFTLink

Validated OPI Partners Guide



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Oracle® Retail EFTLink Validated OPI Partners Guide, Release 25.0.0

Oracle welcomes customers' comments and suggestions on the quality and usefulness of this document.

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- Are the implementation steps correct and complete?
- Did you understand the context of the procedures?
- Did you find any errors in the information?
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Preface

This guide serves as a best practice guide for ensuring secure operation of Oracle Retail EFTLink. Installation and configuration are covered in more detail in separate guides as listed in the Related Documents section below.

Audience

This Installation Guide is for the following audiences:

- System administrators and operations personnel
- Database administrators
- System analysts and programmers
- Integrators and implementation staff personnel

Related Documents

For more information, see the following documents in the Release 25.0.0 documentation set:

- *Oracle Retail EFTLink Release Notes*
- *Oracle Retail EFTLink Core Configuration Guide*
- *Oracle Retail EFTLink Framework Advanced Features Guide*
- *Oracle Retail EFTLink Framework Installation and Configuration Guide*
- *Oracle Retail EFTLink Security Guide*
- *Oracle Retail EFTLink Xstore Compatibility Guide*
- *Oracle Retail EFTLink Rest API Guide*
- *Oracle Retail EFTLink Validated Partners Guide*

Customer Support

To contact Oracle Customer Support, access My Oracle Support at the following URL:

<https://support.oracle.com>

When contacting Customer Support, please provide the following:

- Product version and program/module name
- Functional and technical description of the problem (include business impact)
- Detailed step-by-step instructions to re-create
- Exact error message received
- Screen shots of each step you take

Review Patch Documentation

When you install the application for the first time, you install either a base release (for example, 25.0.0) or a later patch release (for example, 25.0.1). If you are installing the base release, additional patch, and bundled hot fix releases, read the documentation for all releases that have occurred since the base release before you begin installation. Documentation for patch and bundled hot fix releases can contain critical information related to the base release, as well as information about code changes since the base release.

Improved Process for Oracle Retail Documentation Corrections

To more quickly address critical corrections to Oracle Retail documentation content, Oracle Retail documentation may be republished whenever a critical correction is needed. For critical corrections, the republication of an Oracle Retail document may at times not be attached to a numbered software release; instead, the Oracle Retail document will simply be replaced at the Oracle Help Center (OHC) website (docs.oracle.com), or, in the case of Data Models, to the applicable My Oracle Support Documentation container where they reside.

This process will prevent delays in making critical corrections available to customers. For the customer, it means that before you begin installation, you must verify that you have the most recent version of the Oracle Retail documentation set. Oracle Retail documentation is available at the Oracle Help Center at the following URL:

<https://docs.oracle.com/en/industries/retail/index.html>

An updated version of the applicable Oracle Retail document is indicated by Oracle part number, as well as print date (month and year). An updated version uses the same part number, with a higher-numbered suffix. For example, part number F123456-02 is an updated version of a document with part number F123456-01.

If a more recent version of a document is available, that version supersedes all previous versions.

Oracle Retail Documentation at the Oracle Help Center

Oracle Retail product documentation is available on the following website:

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(Data Model documents are not available through Oracle Help Center. You can obtain them through My Oracle Support.)

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.

Convention	Meaning
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

1

Overview

Oracle Payment Interface (OPI) is a payment card-processing interface that integrates with the Oracle Hospitality Point-of-Sale (POS), OPERA, Suite 8 (PMS) and Retail (POS) systems. It defines a standard interface that partner payment service providers can implement to provide credit card processing functionality to Oracle Hospitality OPERA, POS and also Oracle Retail Point of Sale (POS) Systems.

This guide provides information relating to the OPI transaction types for compatibility of Xstore and EFTLink for payment terminal functionality of each Oracle payment partner.

Where the Oracle payment partner does not support an OPI transaction type that is supported by Xstore and EFTLink, it will be left blank to show that there is a gap in that Oracle payment partner's solution. It will be up to the Oracle payment partner or system integrator to suppress that feature in Xstore to ensure that the transaction type is not executed to the point of failure.

Note

Although Oracle are validating the OPI transaction types, Oracle is not responsible for support, this is the responsibility of the Oracle payment partner solution providers. The customer or system integrator should always approach the Oracle payment partner in the first instance who should be able to understand and analyze EFTLink logs in order to determine whether the issue is with their solution or EFTLink. If a problem is found within EFTLink, then the system integrator should go through the standard Oracle support channel in order to facilitate a resolution.

The following Oracle payment partners are validated:

- [ACI Worldwide, Inc.](#)
- [Adyen](#)
- [Aurus](#)
- [Chase Payment Application](#)
- [Citcon](#)
- [Eigen](#)
- [Fiserv](#)
- [Fortis](#)
- [Global Blue](#)
- [Oracle Retail Payment Service \(ORPS\)](#)
- [PayPal/Braintree](#)
- [Planet Payment](#)
- [Shift4 Payments, LLC](#)
- [Software Express](#)

- [Stripe](#)
- [Verifone Payments Connector \(FIPay OPI\)](#)
- [Verifone PSDK](#)

The table below represents the OPI Retail transaction processing messages which are referenced in the validation table for each Oracle payment partner:

Table 1-1 OPI Retail Transaction Processing Messages

Message Type	Transaction Type	Function Description	Mandatory, Optional, Recommended	Comments
Sale/Purchase	01	Sale/Purchase	Mandatory	Including Credit Debit, Customer Not Present
Refund	03	Refund	Mandatory	
Manual Authorization	37	Manual Authorization	Optional	
Sales Completion	07	Sales Completion	Optional	
Void	08	Void	Mandatory	
	39	Void of Refund	Recommended	
Reversal	04	Reversal	Mandatory	
Trans Inq	20	Transaction Inquiry	Recommended	
Balance Inq	27	Balance Inquiry	Optional	
Settlement	10	End-of-Day/Settlement	Optional	
Gift/SVC	28	Gift/SVC Reload	Optional	
	29	Gift/SVC Activate/Issue	Optional	
	30	Gift/SVC Redeem	Optional	
	31	Gift/SVC Void	Optional	
	32	Gift/SVC Cashout (or Close Card)	Optional	
ItemAdvice	43	Line Item Advice	Recommended	
Sale End	45	Sale End (Clear Terminal Screen)	Recommended	
Read Non-PCI Card	50	Request non-PCI card swipe	Recommended	
Check Authorization	51	Check (Cheque) Authorization	Optional	
Void Check Authorization	52	Void Check Authorization	Optional	
Cancel Current Transaction	53	Cancel current transaction	Recommended	
Get Agreement	60	Custom Forms - Get Agreement	Optional	
Get Signature	61	Custom Forms - Get Signature	Optional	
Get Numeric Field	62	Custom Forms - Get Numeric Field	Optional	
Get AlphaNumeric Field	63	Custom Forms - Get AlphaNumeric Field	Optional	

Table 1-1 (Cont.) OPI Retail Transaction Processing Messages

Message Type	Transaction Type	Function Description	Mandatory, Optional, Recommended	Comments
Get Date Field	64	Custom Forms - Get Date Field	Optional	
Get Button Selection	65	Custom Forms - Get Button Selection	Optional	
Get Radio Button Selection	66	Custom Forms - Get Radio Button Selection	Optional	
Display Message	67	Custom Forms - Display Message	Optional	
Display QR Code	68	Custom Forms - Display QR Code	Optional	
Cancel QR Code	69	Custom Forms - Cancel QR Code	Optional	
Card Acquisition	09	Card Acquisition (Pre-read)	Recommended	Tax Free Shopping, QuickChip, Loyalty (such as, AppleVAS) and so on
Cell Phone Recharge	54	Cell Phone Recharge	Optional	Common in LAD
Invoice Payment	55	Invoice Payment	Optional	Common in LAD

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ACI Worldwide, Inc.

Operating Areas: US

Supported Terminals

The following terminals are supported:

Ingenico Telium RBA

- iWL250
- iWL258
- iPP320
- iPP350
- iSC480
- iSC250
- iSMPc
- iSMP4
- iUP250

Ingenico Tetra UPP

- Lane7000
- Lane5000
- Move5000

Verifone MX 900 Series Form Agent / XPI

- Verifone MX 915
- Verifone MX 925

The following table provides information relating to the compatibility of Xstore, EFTLink and ACI Worldwide, Inc. for payment terminal functionality in the context of OPI transaction types.

Table 2-1 ACI Worldwide, Inc.

Payment Terminal Function	Subtype	Oracle Payment Interface Retail Transaction Type	Xstore Release Version	EFTLink OPI Retail Core Release Version	ACI's Payment Solution- eSocket.POS - Release Version
Sign On		-	15.0	-	-
Sign Off		-	15.0	-	-
Card Payment	Payment by Credit	01	15.0	17.0	2.8
	Payment by Debit	01	15.0	17.0	2.8

Table 2-1 (Cont.) ACI Worldwide, Inc.

Payment Terminal Function	Subtype	Oracle Payment Interface Retail Transaction Type	Xstore Release Version	EFTLink OPI Retail Core Release Version	ACI's Payment Solution-eSocket.POS - Release Version
	Manual Authorization	37, 07	-	17.0	2.8
Cashback	Cashback prompted on PED, return amount to POS	01	15.0	-	2.8
Check Payment / Check Verification	Payment by Check	51	17.0	18.0	2.8
Refund	Refund by Credit	03	15.0	17.0	2.8
	Refund by Debit	03	15.0	17.0	2.8
	Cardless Refund using Token	03	16.0	17.0	2.8
Reversal	Reversal of last transaction	04	15.0	17.0	2.8
	Reversal of last transaction within batch	08	15.0	17.0	2.8
DCC (currency conversion)	Foreign exchange tender amount, rate, currency code Functionality that is driven through the Core plugin by virtue of the <DeviceRequest> / <DeviceResponse> API	01, 03, 07, 20	17.0	18.0	2.8
Combined EFT/Tax Receipts	Defer customer copy to <CardServiceResponse>		16.0	17.0	2.8
Customer Display	Sale State Notification	43, 45	15.0	18.0	2.8
Card Swipe - non PCI Cards	Get card data	50	15.0	18.0	2.8
IP PED	Support for ethernet/ wireless connected PED device	-	NA	17.0	2.8
Customer Not Present	CVV2 / AVS / partial entry on PED	01	17.0	17.0	2.8
Electronic Signature Capture	3 byte ASCII (3BA)	01	15.0	18.0	2.8
Abort	Abort in flight transaction	53	17.0	18.0	2.8
Stored Value Cards (Gift Cards)	Redeem	30	16.0	18.0	2.8
	Redeem Reversal	31	16.0	18.0	2.8
	Cashback /Unload	32	16.0	18.0	2.8
	Load/Reload	28	16.0	18.0	2.8
	Refund	32	16.0	18.0	2.8

Table 2-1 (Cont.) ACI Worldwide, Inc.

Payment Terminal Function	Subtype	Oracle Payment Interface Retail Transaction Type	Xstore Release Version	EFTLink OPI Retail Core Release Version	ACI's Payment Solution-Socket.POS - Release Version
	Cash out (Close)	32	16.0.1	18.0	2.8
	Balance Inquiry	27	16.0	18.0	2.8
	Activate	29	16.0	18.0	2.8
	Activate and Load	29	16.0	18.0	2.8
	Activate Reversal	31	16.0	18.0	2.8
Reconciliation	Reconciliation with Closure functionality that is typically available via the hardware maintenance menu on the Xstore POS client, that is, uses the <ServiceRequest> / <ServiceResponse> API	10	15.0	17.0	-
Custom Forms	Terminal Display	67	*	18.0	2.8
	Customer Question	60	*	18.0	2.8
	Phone Number Capture	62	*	18.0	2.8
	Email Address Capture	63	*	18.0	2.8
	Signature Capture	61	*	18.0	2.8
	Customer Buttons	65	*	18.0	2.8
	Display QR Code	68	*	18.0	-
	Cancel QR Code	69	*	18.0	-

* Denotes that the system integrator would have to implement this functionality in the Xstore custom overlay.

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Adyen

Operating Areas: For the detailed list of Operating Areas, please visit [Supported Languages/Supported Countries](#).

Supported Terminals

The following payment terminals are supported:

Verifone

- e285
- M400
- P400Plus, P630
- V210, V240m (Brazil only), V400m, V400cPlus

Castles

- S1E
- S1E2L
- S1F2
- S1F2 Barcode
- S1U2

Ayden Devices

- AMS1
- SFO1

For more details of the Adyen Terminal fleet, please visit adyen.com/devices.

Note

The following properties will need to be configured as per below within the OPI properties file:

- EPSAddress = [IP address of the terminal]
- EPSPort = 8443
- ProxyInfo = OPIV25.1
- POSInfo = X-Store

In addition, the EFTLink truststore needs to be configured with the terminal public certificate obtained from the vendor. Refer to [Protect Local Communications](#). Download the Adyen public root certificates. For more information, see the Securing Communication to EPS Devices by Importing Trusted Certificates section in the *Oracle Retail EFTLink Framework Installation and Configuration Guide*.

The following table provides information relating to the compatibility of Xstore, EFTLink and Adyen for payment terminal functionality in the context of OPI transaction types.

Note

Where there is no version noted for Xstore, it implies that the functionality is driven by EFTLink and the OPI Retail Core. Xstore is not required to implement any additional API feature.

Table 3-1 Adyen

Payment Terminal Function	Subtype	OPI Retail Trans. Type	Xstore Release Version	EFTLink OPI Retail Core Release Version	Adyen VOS Firmware
Sign On		-	15.0	-	-
Sign Off		-	15.0	-	-
Card Payment	Payment by Credit	01	15.0	17.0	1.XX
	Payment by Debit	01	15.0	17.0	1.XX
	Manual Authorization	37, 07	-	17.0	-
	Installments	01		19.0.1	1.XX
	Partial Authorization	01		17.0	-
	Payment by customers saved Card Token	01	20.0	20.0	-
	eWallet Shopper initiated on PED - EWallet button pressed on PED (Flow 1).	01	19.0	19.0	1.XX
	eWallet Cashier initiated with EWallet tender — QR code displayed on PED (Flow 2).	01	19.0	19.0	1.XX
	eWallet Cashier initiated with EWallet tender — Scan QR code displayed on shopper's phone (Flow 3).	01	19.0	19.0	-
Cashback	Cashback prompted on PED, return amount to POS	01	15.0	-	-
Check Payment / Check Verification	Payment by Check	51	17.0	18.0	-
Refund	Refund by Credit	03	15.0	17.0	1.XX
	Refund by Debit	03	15.0	17.0	1.XX

Table 3-1 (Cont.) Adyen

Payment Terminal Function	Subtype	OPI Retail Trans. Type	Xstore Release Version	EFTLink OPI Retail Core Release Version	Adyen VOS Firmware
	Cardless Refund using OriginalRRN	03	16.0	17.0	1.XX
	Cardless Refund using TransToken (Card Token)	03	20.0	19.0.1	1.XX
	Cardless Refund using customers saved Card Token	03	21.0	20.0	1.XX
Reversal	Reversal of last transaction	04	15.0	17.0	1.XX
	Reversal of a transaction within batch*	08	15.0	17.0	1.XX
	Reversal of a refund transaction within a batch**	39	15.0	17.0	-
DCC (currency conversion)	Foreign exchange tender amount, rate, currency code Functionality that is driven through the Core plugin by virtue of the <DeviceRequest> / <DeviceResponse> API	01, 03, 07, 20	17.0	18.0	1.XX
Customer Display	Sale State Notification	43, 45	15.0	18.0	1.XX
	Including Tender Lines		19.0	19.0	1.XX
Card Swipe - non PCI Cards	Get card data	50	15.0	18.0	-
Customer Not Present	CVV2 / AVS / partial entry on PED	01	17.0	17.0	1.XX
Electronic Signature Capture	3 byte ASCII (3BA)	01	15.0	18.0	1.XX
Transaction Inquiry	Time out handling	20	-	17.0	1.XX
Abort	Abort in flight transaction	53	17.0	18.0	1.XX
Stored Value Cards (Gift Cards)	Redeem	30	16.0	18.0	1.XX
	Redeem Reversal	31	16.0	18.0	1.XX
	Cashback /Unload	32	16.0	18.0	1.XX
	Load/Reload	28	16.0	18.0	1.XX
	Refund	32	16.0	18.0	1.XX
	Cash out (Close)	32	16.0.1	18.0	1.XX
	Balance Inquiry	27	16.0	18.0	1.XX
	Activate	29	16.0	18.0	1.XX
	Activate and Load	29	16.0	18.0	1.XX

Table 3-1 (Cont.) Adyen

Payment Terminal Function	Subtype	OPI Retail Trans. Type	Xstore Release Version	EFTLink OPI Retail Core Release Version	Adyen VOS Firmware
	Activate Reversal	31	16.0	18.0	1.XX
Reconciliation	Reconciliation with Closure functionality that is typically available via the hardware maintenance menu on the Xstore POS client, that is, uses the <ServiceRequest> / <ServiceResponse> API	10	15.0	17.0	-
Card Acquisition	Card Acquisition (Pre-read)	09	-	19.0.1	1.XX
2 stage payment	Card Inserted Event / update payment / tax free shopping.	09, 01	19.0	19.0.1	1.XX
Quick Chip	Capture card details during sale.	09, 01	20.0	20.0	-
Card Token	Return Tokenized Card in Response.	01	20.0	20.0	1.XX
	Accept Tokenized Card in Request for Payment.	01	20.0	20.0	1.XX
	Accept Tokenized Card in Request for Refund.	03	21.0	20.0	1.XX
Invoice Payments	Mid-sale Invoice or Bill payment.	55	21.0	21.0	-
Cell Phone Recharge	Mid-sale Cell/Mobile phone top-up.	54	21.0	21.0	-
Custom Forms	Terminal Display	67	*	18.0	-
	Customer Question	60	*	18.0	1.XX
	Phone Number Capture	62	*	18.0	1.XX
	Email Address Capture	63	*	18.0	1.XX
	Signature Capture	61	*	18.0	1.XX
	Customer Buttons	65	*	18.0	1.XX
	Display QR Code	68	*	18.0	1.XX
	Cancel QR Code	69	*	18.0	1.XX

* Denotes that the system integrator would have to implement this functionality in the Xstore custom overlay.

+ Adyen do not currently support receipts for void transactions. This is acceptable as all receipts OPIRetail receive are pre-certified.

** Adyen do not currently support refund reversal transactions due to the nature of their asynchronous platform. Xstore will send the directive to perform a refund reversal. This is a note to warn that this will always fail in the OPI integration with Adyen.

4

Aurus

Operating Areas: United States, Canada, Mexico, Puerto Rico, Austria, Belgium, Czech Republic, Denmark, Finland, France, Iceland, Italy, Luxembourg, Netherlands, Norway, Poland, Portugal, Spain, Sweden, Switzerland, United Kingdom, Ireland, China*, Hong Kong*, India

* China and Hong Kong are restricted to EWallet tender options.

Supported Terminals

The following terminals are supported:

Verifone

- CM5
- e265, e265G
- e280, e280s
- e285
- e315, e315M
- e355
- M400, M424, M440
- MX915, MX925, MX915 ECR, MX915 ECR-C
- P400, P400 Plus, P400 DMSR, P200
- T650c, T650p
- UX100, UX400, UX300
- V400m

Ingenico

- Desk1500, Desk3500, Desk5000
- DX8000, EX8000, AXIUM EX6000
- iPP350
- iSC250, iSC Touch 250
- iSC480, iSC Touch 480
- iSMP4
- IUC250, IUC285, IUP250, IUR250
- Lane3000, Lane3600, Lane5000, Lane7000, Lane8000
- Link2500, Link2500i
- Move2500, Move3500, Move5000
- Self2000, Self4000, Self5000

Equinox

- Luxe 8500i
- Luxe 6200m

The following table provides information relating to the compatibility of Xstore, EFTLink and Aurus for payment terminal functionality in the context of OPI transaction types.

Note

Where there is no version noted for Xstore it implies that the functionality is driven by EFTLink and the OPI Retail Core. Xstore is not required to implement any additional API feature.

Table 4-1 Aurus

Payment Terminal Function	Subtype	Oracle Payment Interface Retail Transaction Type	Xstore Release Version	EFTLink OPI Retail Core Release Version	AurusShield Software
Sign On		-	15.0	-	-
Sign Off		-	15.0	-	-
Card Payment	Payment by Credit	01	15.0	17.0	v2x.xxx
	Payment by Debit	01	15.0	17.0	v2x.xxx
	Manual Authorization	37, 07	-	17.0	v2x.xxx
	Instalments	01	-	19.0	-
	eWallet Cashier initiated with EWallet tender - ScanQR code displayed on shopper's phone (Flow 3).	01	-	19.0	v2x.xxx
Cashback	Cashback prompted on PED, return amount to POS	01	15.0	-	v2x.xxx
Check Payment / Check Verification	Payment by Check	51	17.0	18.0	v2x.xxx
Refund	Refund by Credit	03	15.0	17.0	v2x.xxx
	Refund by Debit	03	15.0	17.0	v2x.xxx
	Cardless Refund using Token	03	16.0	17.0	v2x.xxx
Reversal	Reversal of last transaction	04	15.0	17.0	v2x.xxx
	Reversal of last transaction within batch	08	15.0	17.0	v2x.xxx

Table 4-1 (Cont.) Aurus

Payment Terminal Function	Subtype	Oracle Payment Interface Retail Transaction Type	Xstore Release Version	EFTLink OPI Retail Core Release Version	AurusShield Software
DCC (currency conversion)	Foreign exchange tender amount, rate, currency code Functionality that is driven through the Core plugin by virtue of the <DeviceRequest> / <DeviceResponse> API	01, 03, 07, 20	17.0	18.0	v2x.xxx
Combined EFT/Tax Receipts	Defer customer copy to <CardServiceResponse>		16.0	17.0	-
Customer Display	Sale State Notification	43, 45	15.0	18.0	v2x.xxx
Card Swipe - non PCI Cards	Get card data	50	15.0	18.0	v2x.xxx
IP PED	Support for ethernet/ wireless connected PED device	-	NA	17.0	v2x.xxx
Customer Not Present	CVV2 / AVS / partial entry on PED	01	17.0	17.0	v2x.xxx
Electronic Signature Capture	3 byte ASCII (3BA)	01	15.0	18.0	v2x.xxx
Abort	Abort in flight transaction	53	17.0	18.0	v2x.xxx
Stored Value Cards (Gift Cards)	Redeem	30	16.0	18.0	v2x.xxx
	Redeem Reversal	31	16.0	18.0	v2x.xxx
	Cashback /Unload	32	16.0	18.0	v2x.xxx
	Load/Reload	28	16.0	18.0	v2x.xxx
	Refund	32	16.0	18.0	v2x.xxx
	Cash out (Close)	32	16.0.1	18.0	v2x.xxx
	Balance Inquiry	27	16.0	18.0	v2x.xxx
	Activate	29	16.0	18.0	v2x.xxx
	Activate and Load	29	16.0	18.0	v2x.xxx
	Activate Reversal	31	16.0	18.0	v2x.xxx
Reconciliation	Reconciliation with Closure functionality that is typically available via the hardware maintenance menu on the Xstore POS client, that is, uses the <ServiceRequest> / <ServiceResponse> API	10	15.0	17.0	-
Custom Forms	Terminal Display	67	*	18.0	v2x.xxx
	Customer Question	60	*	18.0	v2x.xxx

Table 4-1 (Cont.) Aurus

Payment Terminal Function	Subtype	Oracle Payment Interface Retail Transaction Type	Xstore Release Version	EFTLink OPI Retail Core Release Version	AurusShield Software
	Phone Number Capture	62	*	18.0	v2x.xxx
	Email Address Capture	63	*	18.0	v2x.xxx
	Signature Capture	61	*	18.0	v2x.xxx
	Customer Buttons	65	*	18.0	v2x.xxx
	Display QR Code	68	*	18.0	-
	Cancel QR Code	69	*	18.0	-

* Denotes that the system integrator would have to implement this functionality in the Xstore custom overlay.

5

Chase Payment Application

Operating Areas: US and Canada,

Supported Terminals

The following terminals are supported:

- Ingenico Axium Android

The following table provides information relating to the compatibility of Xstore, EFTLink and Chase for payment terminal functionality in the context of OPI transaction types.

Note

Where there is no version noted for Xstore it implies that the functionality is driven by EFTLink and the OPI Retail Core. Xstore is not required to implement any additional API feature.

Table 5-1 Chase

Payment Terminal Function	Subtype	Oracle Payment Interface Retail Transaction Type	Xstore Release Version	EFTLink OPI Retail Core Release Version	Chase Payment Application
Sign On		-	15.0	-	-
Sign Off		-	15.0	-	-
Card Payment	Payment by Credit	01	15.0	17.0	2.1.03
	Payment by Debit	01	15.0	17.0	2.1.03
	Manual Authorization	37, 07	-	17.0	-
	Installments	01		19.0	-
	eWallet Shopper initiated on PED - EWallet button pressed on PED (Flow 1).	01	-	19.0	-
Cashback	Cashback prompted on PED, return amount to POS	01	15.0	-	2.1.03
Check Payment / Check Verification	Payment by Check	51	17.0	18.0	-
Refund	Refund by Credit	03	15.0	17.0	2.1.03
	Refund by Debit	03	15.0	17.0	2.1.03

Table 5-1 (Cont.) Chase

Payment Terminal Function	Subtype	Oracle Payment Interface Retail Transaction Type	Xstore Release Version	EFTLink OPI Retail Core Release Version	Chase Payment Application
	Cardless Refund using Token	03	16.0	17.0	2.1.03
Reversal	Reversal of last transaction	04	15.0	17.0	2.1.03
	Reversal of last transaction within batch	08	15.0	17.0	-
DCC (currency conversion)	Foreign exchange tender amount, rate, currency code Functionality that is driven through the Core plugin by virtue of the <DeviceRequest> / <DeviceResponse> API	01, 03, 20	17.0	18.0	2.1.03
Combined EFT/Tax Receipts	Defer customer copy to <CardServiceResponse>	-	16.0	17.0	-
Customer Display	Sale State Notification	43, 45	15.0	18.0	2.1.03
Card Swipe - non PCI Cards	Get card data	50	15.0	18.0	2.1.03
IP PED	Support for ethernet/ wireless connected PED device	-	NA	17.0	-
Customer Not Present	CVV2 / AVS / partial entry on PED	01	17.0	17.0	2.1.03
Electronic Signature Capture	3 byte ASCII (3BA)	01	15.0	18.0	-
Abort	Abort in flight transaction	53	17.0	18.0	-
Stored Value Cards (Gift Cards)	Redeem	30	16.0	18.0	2.1.03
	Redeem Reversal	31	16.0	18.0	2.1.03
	Cashback /Unload	32	16.0	18.0	2.1.03
	Load/Reload	28	16.0	18.0	2.1.03
	Refund	32	16.0	18.0	2.1.03
	Cash out (Close)	32	16.0.1	18.0	2.1.03
	Balance Inquiry	27	16.0	18.0	2.1.03
	Activate	29	16.0	18.0	2.1.03
	Activate and Load	29	16.0	18.0	2.1.03
	Activate Reversal	31	16.0	18.0	2.1.03

Table 5-1 (Cont.) Chase

Payment Terminal Function	Subtype	Oracle Payment Interface Retail Transaction Type	Xstore Release Version	EFTLink OPI Retail Core Release Version	Chase Payment Application
Reconciliation	Reconciliation with Closure functionality that is typically available via the hardware maintenance menu on the Xstore POS client, that is, uses the <ServiceRequest> / <ServiceResponse> API	10	15.0	17.0	2.1.03
Custom Forms	Terminal Display	67	*	18.0	2.1.03
	Customer Question	60	*	18.0	2.1.03
	Phone Number Capture	62	*	18.0	2.1.03
	Email Address Capture	63	*	18.0	2.1.03
	Signature Capture	61	*	18.0	2.1.03
	Customer Buttons	65	*	18.0	2.1.03
	Display QR Code	68	*	18.0	2.1.03
	Cancel QR Code	69	*	18.0	-

* Denotes that the system integrator would have to implement this functionality in the Xstore custom overlay.

6

Citcon

Operating Areas: US, Canada, UK, EU, Australia, New Zealand, Japan, Korea, Mainland China, Hong Kong, Taiwan and Singapore.

Supported Terminals

The following terminals are supported:

- Consumer devices

The following table provides information relating to the compatibility of Xstore, EFTLink and Citcon for EWallet functionality in the context of OPI transaction types.

Note

Where there is no version noted for Xstore it implies that the functionality is driven by EFTLink and the OPI Retail Core. Xstore is not required to implement any additional API feature.

Please also note that where there is no version for Citcon it means that they do not support that OPI feature.

Table 6-1 Citcon

Payment Terminal Function	Subtype	Oracle Payment Interface Retail Transaction Type	Xstore Release Version	EFTLink OPI Retail Core Release Version	Citcon Software
Sign On		-	15.0	-	-
Sign Off		-	15.0	-	-
Payment	Payment by Credit	01	15.0	17.0	
	Payment by Debit	01	15.0	17.0	
	Payment by EWallet Cashier initiated with EWallet tender - Scan QR code displayed on shopper's phone (Flow 3)	01	19.0	19.0	v1.XX
	Manual Authorization	37, 07	-	17.0	
	Installments	01		19.0	-
Cashback	Cashback prompted on PED, return amount to POS	01	15.0	-	

Table 6-1 (Cont.) Citcon

Payment Terminal Function	Subtype	Oracle Payment Interface Retail Transaction Type	Xstore Release Version	EFTLink OPI Retail Core Release Version	Citcon Software
Check Payment / Check Verification	Payment by Check	51	17.0	18.0	
Refund	Refund by Credit	03	15.0	17.0	
	Refund by Debit	03	15.0	17.0	
	Refund by EWallet+	03	19.0	19.0	v1.XX
	Cardless Refund using OriginalRRN	03	16.0	17.0	
Reversal	Reversal of last transaction	04	15.0	17.0	
	Reversal of last transaction within batch	08	15.0	17.0	
DCC (currency conversion)	Foreign exchange tender amount, rate, currency code Functionality that is driven through the Core plugin by virtue of the <DeviceRequest> / <DeviceResponse> API	01, 03, 07, 20	17.0	18.0	
Combined EFT/Tax Receipts	Defer customer copy to <CardServiceResponse>		16.0	17.0	-
Customer Display	Sale State Notification	43, 45	15.0	18.0	
Card Swipe - non PCI Cards	Get card data	50	15.0	18.0	
IP PED	Support for ethernet/ wireless connected PED device	-	NA	17.0	
Customer Not Present	CVV2 / AVS / partial entry on PED	01	17.0	17.0	
Electronic Signature Capture	3 byte ASCII (3BA)	01	15.0	18.0	
Abort	Abort in flight transaction	53	17.0	18.0	
Stored Value Cards (Gift Cards)	Redeem	30	16.0	18.0	
	Redeem Reversal	31	16.0	18.0	
	Cashback /Unload	32	16.0	18.0	
	Load/Reload	28	16.0	18.0	
	Refund	32	16.0	18.0	
	Cash out (Close)	32	16.0.1	18.0	
	Balance Inquiry	27	16.0	18.0	
	Activate	29	16.0	18.0	

Table 6-1 (Cont.) Citcon

Payment Terminal Function	Subtype	Oracle Payment Interface Retail Transaction Type	Xstore Release Version	EFTLink OPI Retail Core Release Version	Citcon Software
	Activate and Load	29	16.0	18.0	
	Activate Reversal	31	16.0	18.0	
Reconciliation	Reconciliation with Closure functionality that is typically available via the hardware maintenance menu on the Xstore POS client, that is, uses the <ServiceRequest> / <ServiceResponse> API	10	15.0	17.0	-
Custom Forms	Terminal Display	67	*	18.0	
	Customer Question	60	*	18.0	
	Phone Number Capture	62	*	18.0	
	Email Address Capture	63	*	18.0	
	Signature Capture	61	*	18.0	
	Customer Buttons	65	*	18.0	
	Display QR Code	68	*	18.0	-
	Cancel QR Code	69	*	18.0	-

* Denotes that the system integrator would have to implement this functionality in the Xstore custom overlay.

+ Denotes that for EWallet transactions only a verified refund can be performed at the POS. This is where Xstore will pass back the RRN to Citcon so they can reference the original payment.

Note

Citcon have not implemented the transaction inquiry to support the timeout reversal logic. Citcon are taking control of this scenario within their solution and therefore accept any reconciliation issues which may occur in the event they are not able to reverse a transaction as a result of a communications issue with their host.

Citcon do not support void of a payment or void of a refund transaction. The expectation is that a payment can only be reversed by a refund transaction.

7

Eigen

Operating Areas: USA, Canada, Puerto Rico.

Supported Terminals

The following terminals are supported:

Verifone

- e280, e355
- M400, Mx915, Mx925
- P400
- V400C, Vx805, Vx820

Ingenico

- iCT250
- Lane 3000, Lane 5000

The following table provides information relating to the compatibility of Xstore, EFTLink and Eigen for payment terminal functionality in the context of OPI transaction types.

Note

Where there is no version noted for Xstore it implies that the functionality is driven by EFTLink and the OPI Retail Core. Xstore is not required to implement any additional API feature.

Table 7-1 Eigen

Payment Terminal Function	Subtype	Oracle Payment Interface Retail Transaction Type	Xstore Release Version	EFTLink OPI Retail Core Release Version	MiraServ Software
Sign On		-	15.0	-	-
Sign Off		-	15.0	-	-
Card Payment	Payment by Credit	01	15.0	17.0	v6.94x
	Payment by Debit	01	15.0	17.0	v6.94x
	Manual Authorization	37, 07	-	17.0	v6.94x
	Instalments	01	-	19.0	-

Table 7-1 (Cont.) Eigen

Payment Terminal Function	Subtype	Oracle Payment Interface Retail Transaction Type	Xstore Release Version	EFTLink OPI Retail Core Release Version	MiraServ Software
	eWallet Shopper initiated on PED-EWallet button pressed on PED (Flow 1).	01	-	19.0	v6.94x
Cashback	Cashback prompted on PED, return amount to POS	01	15.0	-	v6.94x
Check Payment / Check Verification	Payment by Check	51	17.0	18.0	-
Refund	Refund by Credit	03	15.0	17.0	v6.94x
	Refund by Debit	03	15.0	17.0	v6.94x
	Cardless Refund using Token	03	16.0	17.0	v6.94x
Reversal	Reversal of last transaction	04	15.0	17.0	v6.94x
	Reversal of last transaction within batch	08	15.0	17.0	v6.94x
DCC (currency conversion)	Foreign exchange tender amount, rate, currency code Functionality that is driven through the Core plugin by virtue of the <DeviceRequest> / <DeviceResponse> API	01, 03, 07, 20	17.0	18.0	-
Combined EFT/Tax Receipts	Defer customer copy to <CardServiceResponse>		16.0	17.0	-
Customer Display	Sale State Notification	43, 45	15.0	18.0	v6.94x
Card Swipe - non PCI Cards	Get card data	50	15.0	18.0	v6.94x
IP PED	Support for ethernet/ wireless connected PED device	-	NA	17.0	v6.94x
Customer Not Present	CVV2 / AVS / partial entry on PED	01	17.0	17.0	-
Electronic Signature Capture	3 byte ASCII (3BA)	01	15.0	18.0	v6.94x
Abort	Abort in flight transaction	53	17.0	18.0	-
Stored Value Cards (Gift Cards)	Redeem	30	16.0	18.0	v6.94x
	Redeem Reversal	31	16.0	18.0	v6.94x
	Cashback /Unload	32	16.0	18.0	v6.94x
	Load/Reload	28	16.0	18.0	v6.94x
	Refund	32	16.0	18.0	v6.94x

Table 7-1 (Cont.) Eigen

Payment Terminal Function	Subtype	Oracle Payment Interface Retail Transaction Type	Xstore Release Version	EFTLink OPI Retail Core Release Version	MiraServ Software
	Cash out (Close)	32	16.0.1	18.0	v6.94x
	Balance Inquiry	27	16.0	18.0	v6.94x
	Activate	29	16.0	18.0	v6.94x
	Activate and Load	29	16.0	18.0	v6.94x
	Activate Reversal	31	16.0	18.0	v6.94x
Reconciliation	Reconciliation with Closure functionality that is typically available via the hardware maintenance menu on the Xstore POS client, that is, uses the <ServiceRequest> / <ServiceResponse> API	10	15.0	17.0	v6.94x
Custom Forms	Terminal Display	67	*	18.0	-
	Customer Question	60	*	18.0	v6.94x
	Phone Number Capture	62	*	18.0	-
	Email Address Capture	63	*	18.0	-
	Signature Capture	61	*	18.0	v6.94x
	Customer Buttons	65	*	18.0	-
	Display QR Code	68	*	18.0	-
	Cancel QR Code	69	*	18.0	-

* Denotes that the system integrator would have to implement this functionality in the Xstore custom overlay.

8

Fiserv

Operating Areas: Hong Kong, Singapore, Malaysia, Macau, India, Philippines, Australia, Japan, Taiwan, and Korea.

Supported Terminals

The following terminals are supported:

Ingenico

- **Move5000** FDMS 1.38

PAX

- Android platform terminals series: A920, IM30, A50, (All models running the same Android application)

FDMS Base24 A920 1.00.01_20211214

The following table provides information relating to the compatibility of Xstore, EFTLink and Fiserv for payment terminal functionality in the context of OPI transaction types.

Note

Where there is no version noted for Xstore it implies that the functionality is driven by EFTLink and the OPI Retail Core. Xstore is not required to implement any additional API feature.

Table 8-1 Fiserv

Payment Terminal Function	Subtype	Oracle Payment Interface Retail Transaction Type	Xstore Release Version	EFTLink OPI Retail Core Release Version	FiServ OCEAN ONLINE Version
Sign On		-	15.0	-	-
Sign Off		-	15.0	-	-
Card Payment	Payment by Credit	01	15.0	17.0	7.X
	Payment by Debit	01	15.0	17.0	7.X
	Manual Authorization	37, 07	-	17.0	-
	Instalments	01	-	19.0	-
	eWallet	01	-	19.0	-
	Shopper initiated on PED-EWallet button pressed on PED (Flow 1).				

Table 8-1 (Cont.) Fiserv

Payment Terminal Function	Subtype	Oracle Payment Interface Retail Transaction Type	Xstore Release Version	EFTLink OPI Retail Core Release Version	FiServ OCEAN ONLINE Version
Cashback	Cashback prompted on PED, return amount to POS	01	15.0	-	-
Check Payment / Check Verification	Payment by Check	51	17.0	18.0	-
Refund	Refund by Credit	03	15.0	17.0	7.X
	Refund by Debit	03	15.0	17.0	-
	Cardless Refund using Token	03	16.0	17.0	7.X
Reversal	Reversal of last transaction	04	15.0	17.0	7.X
	Reversal of last transaction within batch	08	15.0	17.0	7.X
DCC (currency conversion)	Foreign exchange tender amount, rate, currency code Functionality that is driven through the Core plugin by virtue of the <DeviceRequest> / <DeviceResponse> API	01, 03, 07, 20	17.0	18.0	-
Combined EFT/Tax Receipts	Defer customer copy to <CardServiceResponse>		16.0	17.0	-
Customer Display	Sale State Notification	43, 45	15.0	18.0	-
Card Swipe - non PCI Cards	Get card data	50	15.0	18.0	-
IP PED	Support for ethernet/ wireless connected PED device	-	NA	17.0	7.X
Customer Not Present	CVV2 / AVS / partial entry on PED	01	17.0	17.0	-
Electronic Signature Capture	3 byte ASCII (3BA)	01	15.0	18.0	-
Abort	Abort in flight transaction	53	17.0	18.0	-
Stored Value Cards (Gift Cards)	Redeem	30	16.0	18.0	-
	Redeem Reversal	31	16.0	18.0	-
	Cashback /Unload	32	16.0	18.0	-
	Load/Reload	28	16.0	18.0	-
	Refund	32	16.0	18.0	-
	Cash out (Close)	32	16.0.1	18.0	-
	Balance Inquiry	27	16.0	18.0	-

Table 8-1 (Cont.) Fiserv

Payment Terminal Function	Subtype	Oracle Payment Interface Retail Transaction Type	Xstore Release Version	EFTLink OPI Retail Core Release Version	FiServ OCEAN ONLINE Version
	Activate	29	16.0	18.0	-
	Activate and Load	29	16.0	18.0	-
	Activate Reversal	31	16.0	18.0	-
Reconciliation	Reconciliation with Closure functionality that is typically available via the hardware maintenance menu on the Xstore POS client, that is, uses the <ServiceRequest> / <ServiceResponse> API	10	15.0	17.0	-
Custom Forms	Terminal Display	67	*	18.0	-
	Customer Question	60	*	18.0	-
	Phone Number Capture	62	*	18.0	-
	Email Address Capture	63	*	18.0	-
	Signature Capture	61	*	18.0	-
	Customer Buttons	65	*	18.0	-
	Display QR Code	68	*	18.0	-
	Cancel QR Code	69	*	18.0	-

* Denotes that the system integrator would have to implement this functionality in the Xstore custom overlay.

9

Fortis

Operating Areas: USA, Canada.

Supported Terminals

The following terminals are supported:

Ingenico

- iPP 320, iPP 350
- iSC Touch 250, iSC Touch 480
- iWL 228, iWL 258
- Lane 3000, Lane 5000, Lane 7000, Lane 8000
- Link 3500
- Move 5000

The following table provides information relating to the compatibility of Xstore, EFTLink and Fortis for payment terminal functionality in the context of OPI transaction types.

Note

Where there is no version noted for Xstore it implies that the functionality is driven by EFTLink and the OPI Retail Core. Xstore is not required to implement any additional API feature.

Table 9-1 Fortis

Payment Terminal Function	Subtype	Oracle Payment Interface Retail Transaction Type	Xstore Release Version	EFTLink OPI Retail Core Release Version	Fortispa y Software
Sign On		-	15.0	-	-
Sign Off		-	15.0	-	-
Card Payment	Payment by Credit	01	15.0	17.0	v2X.X.X
	Payment by Debit	01	15.0	17.0	v2X.X.X
	Manual Authorization	37, 07	-	17.0	v2X.X.X
	Instalments	01	-	19.0	-
	eWallet	01	-	19.0	v2X.X.X
	Shopper initiated on PED-EWallet button pressed on PED (Flow 1).				

Table 9-1 (Cont.) Fortis

Payment Terminal Function	Subtype	Oracle Payment Interface Retail Transaction Type	Xstore Release Version	EFTLink OPI Retail Core Release Version	Fortispa y Software
Cashback	Cashback prompted on PED, return amount to POS	01	15.0	-	v2X.X.X
Check Payment / Check Verification	Payment by Check	51	17.0	18.0	v2X.X.X
Refund	Refund by Credit	03	15.0	17.0	v2X.X.X
	Refund by Debit	03	15.0	17.0	v2X.X.X
	Cardless Refund using Token	03	16.0	17.0	v2X.X.X
Reversal	Reversal of last transaction	04	15.0	17.0	v2X.X.X
	Reversal of last transaction within batch	08	15.0	17.0	v2X.X.X
DCC (currency conversion)	Foreign exchange tender amount, rate, currency code Functionality that is driven through the Core plugin by virtue of the <DeviceRequest> / <DeviceResponse> API	01, 03, 07, 20	17.0	18.0	-
Combined EFT/Tax Receipts	Defer customer copy to <CardServiceResponse>		16.0	17.0	-
Customer Display	Sale State Notification	43, 45	15.0	18.0	-
Card Swipe - non PCI Cards	Get card data	50	15.0	18.0	-
IP PED	Support for ethernet/ wireless connected PED device	-	NA	17.0	v2X.X.X
Customer Not Present	CVV2 / AVS / partial entry on PED	01	17.0	17.0	v2X.X.X
Electronic Signature Capture	3 byte ASCII (3BA)	01	15.0	18.0	v2X.X.X
Abort	Abort in flight transaction	53	17.0	18.0	-
Stored Value Cards (Gift Cards)	Redeem	30	16.0	18.0	-
	Redeem Reversal	31	16.0	18.0	-
	Cashback /Unload	32	16.0	18.0	-
	Load/Reload	28	16.0	18.0	-
	Refund	32	16.0	18.0	-
	Cash out (Close)	32	16.0.1	18.0	-
	Balance Inquiry	27	16.0	18.0	-
	Activate	29	16.0	18.0	-

Table 9-1 (Cont.) Fortis

Payment Terminal Function	Subtype	Oracle Payment Interface Retail Transaction Type	Xstore Release Version	EFTLink OPI Retail Core Release Version	Fortispa y Software
	Activate and Load	29	16.0	18.0	-
	Activate Reversal	31	16.0	18.0	-
	Reconciliation	10	15.0	17.0	-
	Reconciliation with Closure functionality that is typically available via the hardware maintenance menu on the Xstore POS client, that is, uses the <ServiceRequest> / <ServiceResponse> API				
Custom Forms	Terminal Display	67	*	18.0	v2X.X.X
	Customer Question	60	*	18.0	-
	Phone Number Capture	62	*	18.0	-
	Email Address Capture	63	*	18.0	-
	Signature Capture	61	*	18.0	v2X.X.X
	Customer Buttons	65	*	18.0	-
	Display QR Code	68	*	18.0	-
	Cancel QR Code	69	*	18.0	-

* Denotes that the system integrator would have to implement this functionality in the Xstore custom overlay.

10

Global Blue

Operating Areas: Australia, Italy, and Cyprus.

Supported Terminals

The following terminals are supported:

- Ingenico MOVE/5000
- Ingenico DX8000
- Pax A920
- Ingenico various Telium Tetra models
- Verifone various Engage models

The following table provides information relating to the compatibility of Xstore, EFTLink and Global Blue Middleware for payment terminal functionality in the context of OPI transaction types.

Note

Where there is no version noted for Xstore it implies that the functionality is driven by EFTLink and the OPI Retail Core. Xstore is not required to implement any additional API feature.

Table 10-1 Global Blue

Payment Terminal Function	Subtype	Oracle Payment Interface Retail Transaction Type	Xstore Release Version	EFTLink OPI Retail Core Release Version	Global Blue Middleware
Sign On		-	15.0	-	-
Sign Off		-	15.0	-	-
Payment	Payment by Credit	01	15.0	17.0	3.0
	Payment by Debit	01	15.0	17.0	3.0
	Manual Authorization	37, 07	-	17.0	-
	Installments	01	-	19.0	-
	eWallet	01	-	19.0	-
	Shopper initiated on PED - EWallet button pressed on PED (Flow 1).				

Table 10-1 (Cont.) Global Blue

Payment Terminal Function	Subtype	Oracle Payment Interface Retail Transaction Type	Xstore Release Version	EFTLink OPI Retail Core Release Version	Global Blue Middleware
Cashback	Cashback prompted on PED, return amount to POS	01	15.0	-	-
Check Payment / Check Verification	Payment by Check	51	17.0	18.0	-
Refund	Refund by Credit	03	15.0	17.0	3.0
	Refund by Debit	03	15.0	17.0	3.0
	Cardless Refund using Token	03	16.0	17.0	3.0
Reversal	Reversal of last transaction	04	15.0	17.0	3.0
	Reversal of last transaction within batch	08	15.0	17.0	-
DCC (currency conversion)	Foreign exchange tender amount, rate, currency code Functionality that is driven through the Core plugin by virtue of the <DeviceRequest> / <DeviceResponse> API	01, 03, 20	17.0	18.0	3.0
Combined EFT/Tax Receipts	Defer customer copy to <CardServiceResponse>		16.0	17.0	-
Customer Display	Sale State Notification	43, 45	15.0	18.0	-
Card Swipe - non PCI Cards	Get card data	50	15.0	18.0	-
IP PED	Support for ethernet/ wireless connected PED device	-	NA	17.0	-
Customer Not Present	CVV2 / AVS / partial entry on PED	01	17.0	17.0	3.0
Electronic Signature Capture	3 byte ASCII (3BA)	01	15.0	18.0	-
Abort	Abort in flight transaction	53	17.0	18.0	-
Stored Value Cards (Gift Cards)	Redeem	30	16.0	18.0	-
	Redeem Reversal	31	16.0	18.0	-
	Cashback /Unload	32	16.0	18.0	-
	Load/Reload	28	16.0	18.0	-
	Refund	32	16.0	18.0	-
	Cash out (Close)	32	16.0.1	18.0	-

Table 10-1 (Cont.) Global Blue

Payment Terminal Function	Subtype	Oracle Payment Interface Retail Transaction Type	Xstore Release Version	EFTLink OPI Retail Core Release Version	Global Blue Middleware
	Balance Inquiry	27	16.0	18.0	-
	Activate	29	16.0	18.0	-
	Activate and Load	29	16.0	18.0	-
	Activate Reversal	31	16.0	18.0	-
Reconciliation	Reconciliation with Closure functionality that is typically available via the hardware maintenance menu on the Xstore POS client, that is, uses the <ServiceRequest> / <ServiceResponse> API	10	15.0	17.0	3.0
Custom Forms	Terminal Display	67	*	18.0	-
	Customer Question	60	*	18.0	-
	Phone Number Capture	62	*	18.0	-
	Email Address Capture	63	*	18.0	-
	Signature Capture	61	*	18.0	-
	Customer Buttons	65	*	18.0	-
	Display QR Code	68	*	18.0	-
	Cancel QR Code	69	*	18.0	-

* Denotes that the system integrator would have to implement this functionality in the Xstore custom overlay.

Oracle Retail Payment Service (ORPS)

Operating Areas: US

Supported Terminals

The following terminals are supported:

Verifone

- e285
- M400
- P400 Plus
- V400M

Castles

- Saturn 1000E

Note

The following properties will need to be configured as per below within the OPI properties file:

- EPSAddress = [IP address of the terminal]
- EPSName = ORPS
- EPSPort = 8443
- ProxyInfo = OPIV23.0
- POSInfo = X-Store
- UseLegacyTokenLogicEnabled = false
- RefRefundUseCardTokenEnabled = false
- TokenizeAnonymousCardsEnabled = true

The following table provides information relating to the compatibility of Xstore, EFTLink and Oracle Retail Payment Service (ORPS) for payment terminal functionality in the context of OPI transaction types.

Note

Where there is no version noted for Xstore it implies that the functionality is driven by EFTLink and the OPI Retail Core. Xstore is not required to implement any additional API feature.

Table 11-1 Oracle Retail Payment Service (ORPS)

Payment Terminal Function	Subtype	Oracle Payment Interface Retail Transaction Type	Xstore Release Version	EFTLink OPI Retail Core Release Version
Sign On		-	15.0	-
Sign Off		-	15.0	-
Card Payment	Payment by Credit	01	15.0	19.0.1
	Payment by Debit	01	15.0	19.0.1
	Manual Authorization	37, 07	-	-
	Installments	01	-	-
	Partial Authorization	01	15.0	19.0.1
	eWallet	01		-
	Shopper initiated on PED - EWallet button pressed on PED (Flow 1).			
	eWallet Cashier initiated with EWallet tender - QR code displayed on PED (Flow 2).	01		-
Cashback	Cashback prompted on PED, return amount to POS	01	15.0	-
Check Payment / Check Verification	Payment by Check	51	17.0	-
Refund	Refund by Credit	03	15.0	19.0.1
	Refund by Debit	03	15.0	19.0.1
	Cardless Refund using OriginalRRN	03	16.0	19.0.1
	Cardless Refund using TransToken	03	16.0	19.0.1
Reversal	Reversal of last transaction	04	15.0	19.0.1
	Reversal of last transaction within batch+	08	15.0	19.0.1
	Reversal of a refund transaction within a batch**	39	15.0	-
DCC (currency conversion)	Foreign exchange tender amount, rate, currency code Functionality that is driven through the Core plugin by virtue of the <DeviceRequest> / <DeviceResponse> API	01, 03, 07, 20	17.0	19.0.1
Customer Display	Sale State Notification	43, 45	15.0	19.0.1
Card Swipe - non PCI Cards	Get card data	50	15.0	-
Customer Not Present	CVV2 / AVS / partial entry on PED	01	17.0	19.0.1

Table 11-1 (Cont.) Oracle Retail Payment Service (ORPS)

Payment Terminal Function	Subtype	Oracle Payment Interface Retail Transaction Type	Xstore Release Version	EFTLink OPI Retail Core Release Version
Electronic Signature Capture	3 byte ASCII (3BA)	01	15.0	19.0.1
Transaction Inquiry	Time out handling	20	-	19.0.1
Abort	Abort in flight transaction	53	17.0	19.0.1
Stored Value Cards (Gift Cards)	Redeem	30	16.0	-
	Redeem Reversal	31	16.0	-
	Cashback /Unload	32	16.0	-
	Load/Reload	28	16.0	-
	Refund	32	16.0	-
	Cash out (Close)	32	16.0.1	-
	Balance Inquiry	27	16.0	-
	Activate	29	16.0	-
	Activate and Load	29	16.0	-
	Activate Reversal	31	16.0	-
Reconciliation	Reconciliation with Closure functionality that is typically available via the hardware maintenance menu on the Xstore POS client, that is, uses the <ServiceRequest> / <ServiceResponse> API	10	15.0	-
Card Acquisition	Card Acquisition (Pre-read)	09	-	19.0.1
Custom Forms	Terminal Display	67	*	-
	Customer Question	60	*	19.0.1
	Phone Number Capture	62	*	19.0.1
	Email Address Capture	63	*	19.0.1
	Signature Capture	61	*	19.0.1
	Customer Buttons	65	*	19.0.1
	Display QR Code	68	*	19.0.1
	Cancel QR Code	69	*	19.0.1

* Denotes that the system integrator would have to implement this functionality in the Xstore custom overlay.

+ ORPS do not currently support receipts for void transactions. This is acceptable as all receipts OPIRetail receive are pre-certified.

** ORPS do not currently support refund reversal transactions due to the nature of their asynchronous platform. Xstore will send the directive to perform a refund reversal. This is a note to warn that this will always fail in the OPI integration with ORPS.

12

PayPal/Braintree

Operating Areas: United States, Puerto Rico, U.S. Virgin Islands

Supported Terminals

The following terminals are supported:

Verifone

- e285
- M400
- P400

The following table provides information relating to the compatibility of Xstore, EFTLink and PayPal for payment terminal functionality in the context of OPI transaction types.

Note

Where there is no version noted for Xstore it implies that the functionality is driven by EFTLink and the OPI Retail Core. Xstore is not required to implement any additional API feature.

Table 12-1 PayPal

Payment Terminal Function	Subtype	Oracle Payment Interface Retail Transaction Type	Xstore Release Version	EFTLink OPI Retail Core Release Version	PayPal Braintree Omnichannel
Sign On		-	15.0	-	-
Sign Off		-	15.0	-	-
Card Payment	Payment by Credit	01	15.0	17.0	v1.0
	Payment by Debit	01	15.0	17.0	v1.0
	Manual Authorization	37, 07	-	17.0	-
	Instalments	01	-	19.0	-
	eWallet	01	-	19.0	v1.0
	Shopper scans QR Code on PED (Flow 2).				
Cashback	Cashback prompted on PED, return amount to POS	01	15.0	-	-
Check Payment / Check Verification	Payment by Check	51	17.0	18.0	-
Refund	Refund by Credit	03	15.0	17.0	v1.0

Table 12-1 (Cont.) PayPal

Payment Terminal Function	Subtype	Oracle Payment Interface Retail Transaction Type	Xstore Release Version	EFTLink OPI Retail Core Release Version	PayPal Braintree Omnichannel
	Refund by Debit	03	15.0	17.0	v1.0
	Cardless Refund using Token	03	16.0	17.0	v1.0
Reversal	Reversal of last transaction	04	15.0	17.0	v1.0
	Reversal of last transaction within batch	08	15.0	17.0	v1.0
DCC (currency conversion)	Foreign exchange tender amount, rate, currency code Functionality that is driven through the Core plugin by virtue of the <DeviceRequest> / <DeviceResponse> API	01, 03, 07, 20	17.0	18.0	-
Combined EFT/Tax Receipts	Defer customer copy to <CardServiceResponse>		16.0	17.0	-
Customer Display	Sale State Notification	43, 45	15.0	18.0	v1.0
Card Swipe - non PCI Cards	Get card data	50	15.0	18.0	v1.0
IP PED	Support for ethernet/ wireless connected PED device	-	NA	17.0	v1.0
Customer Not Present	CVV2 / AVS / partial entry on PED	01	17.0	17.0	-
Electronic Signature Capture	3 byte ASCII (3BA)	01	15.0	18.0	-
Abort	Abort in flight transaction	53	17.0	18.0	v1.0
Stored Value Cards (Gift Cards)	Redeem	30	16.0	18.0	-
	Redeem Reversal	31	16.0	18.0	-
	Cashback /Unload	32	16.0	18.0	-
	Load/Reload	28	16.0	18.0	-
	Refund	32	16.0	18.0	-
	Cash out (Close)	32	16.0.1	18.0	-
	Balance Inquiry	27	16.0	18.0	-
	Activate	29	16.0	18.0	-
	Activate and Load	29	16.0	18.0	-
	Activate Reversal	31	16.0	18.0	-

Table 12-1 (Cont.) PayPal

Payment Terminal Function	Subtype	Oracle Payment Interface Retail Transaction Type	Xstore Release Version	EFTLink OPI Retail Core Release Version	PayPal Braintree Omnichannel
Reconciliation	Reconciliation with Closure functionality that is typically available via the hardware maintenance menu on the Xstore POS client, that is, uses the <ServiceRequest> / <ServiceResponse> API	10	15.0	17.0	-
Custom Forms	Terminal Display	67	*	18.0	v1.0
	Customer Question	60	*	18.0	v1.0
	Phone Number Capture	62	*	18.0	v1.0
	Email Address Capture	63	*	18.0	v1.0
	Signature Capture	61	*	18.0	v1.0
	Customer Buttons	65	*	18.0	-
	Display QR Code	68	*	18.0	-
	Cancel QR Code	69	*	18.0	-

* Denotes that the system integrator would have to implement this functionality in the Xstore custom overlay.

Planet Payment

Operating Areas: Austria, Belgium, Bulgaria, Canada, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Guadalupe, Greece, Hong Kong, Croatia, Hungary, Ireland, Iceland, Italy, Lithuania, Luxembourg, Latvia, Martinique, Malta, Mexico, Netherlands, Norway, Poland, Puerto Rico, Portugal, Qatar, Romania, Slovenia, Slovakia, Spain, Sweden, Switzerland, United Kingdom, United States, United Arab Emirates, Virgin Islands

Supported Terminals

The following terminals are supported:

Ingenico

- Desk5000
- Lane3000
- Move2500, Move5000

PAX

- A30, A35
- A50
- A77
- A80
- A920, A920 Pro

Verifone

- P400

Worldline

- Yomani
- Yoximo

The following table provides information relating to the compatibility of Xstore, EFTLink and Planet for payment terminal functionality in the context of OPI transaction types.

Note

Where there is no version noted for Xstore it implies that the functionality is driven by EFTLink and the OPI Retail Core. Xstore is not required to implement any additional API feature.

Table 13-1 Planet

Payment Terminal Function	Subtype	Oracle Payment Interface Retail Transaction Type	Xstore Release Version	EFTLink OPI Retail Core Release Version	Planet Integra Software Minimum Version
Sign On		-	15.0	-	-
Sign Off		-	15.0	-	-
Card Payment	Payment by Credit	01	15.0	17.0	v1.0.5.18
	Payment by Debit	01	15.0	17.0	v1.0.5.18
	Manual Authorization	37, 07	-	17.0	v1.0.5.18
	Instalments	01	-	19.0	-
	eWallet Shopper initiated on PED- EWallet button pressed on PED (Flow 1).	01	-	19.0	v1.0.5.18
Cashback	Cashback prompted on PED, return amount to POS	01	15.0	-	-
Check Payment / Check Verification	Payment by Check	51	17.0	18.0	-
Refund	Refund by Credit	03	15.0	17.0	v1.0.5.18
	Refund by Debit	03	15.0	17.0	v1.0.5.18
	Cardless Refund using Token	03	16.0	17.0	v1.0.5.18
Reversal	Reversal of last transaction	04	15.0	17.0	v1.0.5.18
	Reversal of last transaction within batch	08	15.0	17.0	v1.0.5.18
DCC (currency conversion)	Foreign exchange tender amount, rate, currency code Functionality that is driven through the Core plugin by virtue of the <DeviceRequest> / <DeviceResponse> API	01, 03, 07, 20	17.0	18.0	v1.0.5.18
Combined EFT/Tax Receipts	Defer customer copy to <CardServiceResponse>		16.0	17.0	-
Customer Display	Sale State Notification	43, 45	15.0	18.0	-
Card Swipe - non PCI Cards	Get card data	50	15.0	18.0	v1.0.5.18
IP PED	Support for ethernet/ wireless connected PED device	-	NA	17.0	v1.0.5.18
Customer Not Present	CVV2 / AVS / partial entry on PED	01	17.0	17.0	v1.0.5.18
Electronic Signature Capture	3 byte ASCII (3BA)	01	15.0	18.0	-

Table 13-1 (Cont.) Planet

Payment Terminal Function	Subtype	Oracle Payment Interface Retail Transaction Type	Xstore Release Version	EFTLink OPI Retail Core Release Version	Planet Integra Software Minimum Version
Abort	Abort in flight transaction	53	17.0	18.0	-
Stored Value Cards (Gift Cards)	Redeem	30	16.0	18.0	-
	Redeem Reversal	31	16.0	18.0	-
	Cashback /Unload	32	16.0	18.0	-
	Load/Reload	28	16.0	18.0	-
	Refund	32	16.0	18.0	-
	Cash out (Close)	32	16.0.1	18.0	-
	Balance Inquiry	27	16.0	18.0	-
	Activate	29	16.0	18.0	-
	Activate and Load	29	16.0	18.0	-
	Activate Reversal	31	16.0	18.0	-
Reconciliation	Reconciliation with Closure functionality that is typically available via the hardware maintenance menu on the Xstore POS client, that is, uses the <ServiceRequest> / <ServiceResponse> API	10	15.0	17.0	v1.0.5.18
Custom Forms	Terminal Display	67	*	18.0	-
	Customer Question	60	*	18.0	-
	Phone Number Capture	62	*	18.0	-
	Email Address Capture	63	*	18.0	-
	Signature Capture	61	*	18.0	-
	Customer Buttons	65	*	18.0	-
	Display QR Code	68	*	18.0	v1.0.5.18
	Cancel QR Code	69	*	18.0	v1.0.5.18

* Denotes that the system integrator would have to implement this functionality in the Xstore custom overlay.

Shift4 Payments, LLC

Operating Areas: United States, Canada

Supported Terminals

The following terminals are supported:

- Verifone MX915
- Verifone MX925
- Ingenico (all attended Tetra models)
- Ingenico (all attended Telium Models)

The following table provides information relating to the compatibility of Xstore, EFTLink and Shift4 Payments, LLC for payment terminal functionality in the context of OPI transaction types.

Note

Where there is no version noted for Xstore it implies that the functionality is driven by EFTLink and the OPI Retail Core. Xstore is not required to implement any additional API feature.

Table 14-1 Shift4 Payments, LLC

Payment Terminal Function	Subtype	Oracle Payment Interface Retail Transaction Type	Xstore Release Version	EFTLink OPI Retail Core Release Version	Shift4 Payments LLC Universal Transaction Gateway (UTG)
Sign On		-	15.0	-	-
Sign Off		-	15.0	-	-
Card Payment	Payment by Credit	01	15.0	17.0	5.0.0.3024
	Payment by Debit	01	15.0	17.0	5.0.0.3024
	Manual Authorization	37, 07	-	17.0	5.0.0.3024
	Instalments	01		19.0	-
	Partial Authorization	01		17.0	5.0.0.3024
Cashback	Cashback prompted on PED, return amount to POS	01	15.0	-	-
Transaction Inquiry	Timeout Handling**	20	-	17.0	5.0.0.3024
Check Payment / Check Verification	Payment by Check	51	17.0	18.0	-

Table 14-1 (Cont.) Shift4 Payments, LLC

Payment Terminal Function	Subtype	Oracle Payment Interface Retail Transaction Type	Xstore Release Version	EFTLink OPI Retail Core Release Version	Shift4 Payments LLC Universal Transaction Gateway (UTG)
Refund	Refund by Credit	03	15.0	17.0	5.0.0.3024
	Refund by Debit	03	15.0	17.0	5.0.0.3024
	Cardless Refund using Token	03	16.0	17.0	5.0.0.3024
Reversal	Reversal of last transaction	04	15.0	17.0	-
	Reversal of transaction within batch	08	15.0	17.0	5.0.0.3024
	Reversal of refund transaction within batch	39	15.0	17.0	5.0.0.3024
DCC (currency conversion)	Foreign exchange tender amount, rate, currency code Functionality that is driven through the Core plugin by virtue of the <DeviceRequest> / <DeviceResponse> API	01, 03, 07, 20	17.0	18.0	-
Customer Display	Sale State Notification	43, 45	15.0	18.0	-
Card Swipe - non PCI Cards	Get card data	50	15.0	18.0	-
Customer Not Present	CVV2 / AVS / partial entry on PED	01	17.0	17.0	5.0.0.3024
Electronic Signature Capture	3 byte ASCII (3BA)	01	15.0	18.0	-
Abort	Abort in flight transaction	53	17.0	18.0	-
Stored Value Cards (Gift Cards)	Redeem	30	16.0	18.0	-
	Redeem Reversal	31	16.0	18.0	-
	Cashback /Unload	32	16.0	18.0	-
	Load/Reload	28	16.0	18.0	-
	Refund	32	16.0	18.0	-
	Cash out (Close)	32	16.0.1	18.0	-
	Balance Inquiry	27	16.0	18.0	-
	Activate	29	16.0	18.0	-
	Activate and Load	29	16.0	18.0	-
	Activate Reversal	31	16.0	18.0	-

Table 14-1 (Cont.) Shift4 Payments, LLC

Payment Terminal Function	Subtype	Oracle Payment Interface Retail Transaction Type	Xstore Release Version	EFTLink OPI Retail Core Release Version	Shift4 Payments LLC Universal Transaction Gateway (UTG)
Reconciliation	Reconciliation with Closure functionality that is typically available via the hardware maintenance menu on the Xstore POS client, that is, uses the <ServiceRequest> / <ServiceResponse> API	10	15.0	17.0	-
Custom Forms	Terminal Display	67	*	18.0	-
	Customer Question	60	*	18.0	-
	Phone Number Capture	62	*	18.0	-
	Email Address Capture	63	*	18.0	-
	Signature Capture	61	*	18.0	-
	Customer Buttons	65	*	18.0	-
	Display QR Code	68	*	18.0	-
	Cancel QR Code	69	*	18.0	-

* Denotes that the system integrator would have to implement this functionality in the Xstore custom overlay.

** Time out handling - The UTG time out setting will always be set to a value less than the OPIRetail setting which means OPIRetail will always get a response from the UTG. Therefore in production UTG will return one of the following response codes to OPIRetail:

90 - Cutoff In Progress

91 - Host or Switch Unavailable, Card Issuer Signed Off, Card Issuer Timed Out, Card Issuer Unavailable

92 - Unable to Route Transaction

The standard behavior for UTG would be to expect a transaction inquiry [Type 20] message but OPI Retail will treat these response codes as a decline in line with the OPI Specification. It has been agreed with Oracle Retail and Shift4 Payments LLC that Shift4 Payments LLC will be responsible for voiding the transaction in this scenario. This means the UTG will send a void for the payment. Shift4 Payments LLC provided evidence to support that this void is executed. This was enough to convince Oracle Retail that it would not be possible to see a double charge scenario for those decline reason codes.

Software Express

Operating Areas: Brazil, Mexico, Argentina and Venezuela.

Supported Terminals

The following terminals are supported:

Verifone

- C680
- P200
- VX680, VX690, VX820

Ingenico

- iCMP122
- iPP320, iPP350
- Lane300
- Link2500

Gertec

- PPC900, PPC910, PPC920, PPC930
- MP5, MP10

PAX

- D175, D180, D195, D200
- S300

Newland

- ME30S

The following table provides information relating to the compatibility of Xstore, EFTLink and Software Express for payment terminal functionality in the context of OPI transaction types.

Note

Where there is no version noted for Xstore it implies that the functionality is driven by EFTLink and the OPI Retail Core. Xstore is not required to implement any additional API feature.

Table 15-1 Software Express

Payment Terminal Function	Subtype	Oracle Payment Interface Retail Transaction Type	Xstore Release Version	EFTLink OPI Retail Core Release Version	Software Express Software
Sign On		-	15.0	-	-
Sign Off		-	15.0	-	-
Card Payment	Payment by Credit	01	15.0	17.0	v1.0.0
	Payment by Debit	01	15.0	17.0	v1.0.0
	Manual Authorization	37, 07	-	17.0	-
	Installments	01		19.0	v1.0.0
	eWallet Shopper initiated on PED - EWallet button pressed on PED (Flow 1).	01		19.0	-
Cashback	Cashback prompted on PED, return amount to POS	01	15.0	-	-
Check Payment / Check Verification	Payment by Check	51	17.0	18.0	-
Refund	Refund by Credit	03	15.0	17.0	-
	Refund by Debit	03	15.0	17.0	-
	Cardless Refund using Token	03	16.0	17.0	-
Reversal	Reversal of last transaction	04	15.0	17.0	v1.0.0
	Reversal of a transaction within batch	08	15.0	17.0	v1.0.0
DCC (currency conversion)	Foreign exchange tender amount, rate, currency code Functionality that is driven through the Core plugin by virtue of the <DeviceRequest> / <DeviceResponse> API	01, 03, 07, 20	17.0	18.0	-
Combined EFT/Tax Receipts	Defer customer copy to <CardServiceResponse>		16.0	17.0	-
Customer Display	Sale State Notification	43, 45	15.0	18.0	-
Card Swipe - non PCI Cards	Get card data	50	15.0	18.0	-

Table 15-1 (Cont.) Software Express

Payment Terminal Function	Subtype	Oracle Payment Interface Retail Transaction Type	Xstore Release Version	EFTLink OPI Retail Core Release Version	Software Express Software
IP PED	Support for ethernet/ wireless connected PED device	-	NA	17.0	v1.0.0
Customer Not Present	CVV2 / AVS / partial entry on PED	01	17.0	17.0	-
Electronic Signature Capture	3 byte ASCII (3BA)	01	15.0	18.0	-
Abort	Abort in flight transaction	53	17.0	18.0	-
Stored Value Cards (Gift Cards)	Redeem	30	16.0	18.0	-
	Redeem Reversal	31	16.0	18.0	-
	Cashback /Unload	32	16.0	18.0	-
	Load/Reload	28	16.0	18.0	-
	Refund	32	16.0	18.0	-
	Cash out (Close)	32	16.0.1	18.0	-
	Balance Inquiry	27	16.0	18.0	-
	Activate	29	16.0	18.0	-
	Activate and Load	29	16.0	18.0	-
	Activate Reversal	31	16.0	18.0	-
Reconciliation	Reconciliation with Closure functionality that is typically available via the hardware maintenance menu on the Xstore POS client, that is, uses the <ServiceRequest> / <ServiceResponse> API	10	15.0	17.0	-
Custom Forms	Terminal Display	67	*	18.0	-
	Customer Question	60	*	18.0	-
	Phone Number Capture	62	*	18.0	-
	Email Address Capture	63	*	18.0	-
	Signature Capture	61	*	18.0	-
	Customer Buttons	65	*	18.0	-
	Display QR Code	68	*	18.0	-
	Cancel QR Code	69	*	18.0	-

* Denotes that the system integrator would have to implement this functionality in the Xstore custom overlay.

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Stripe

Operating Areas: Australia, Austria, Belgium, Canada, Czech Republic, Denmark, Finland, France, Germany, Ireland, Italy, Luxembourg, Malaysia, Netherlands, New Zealand, Norway, Poland, Portugal, Singapore, Spain, Sweden, Switzerland, United Kingdom, United States

Supported Terminals

The following terminals are supported: Stripe Reader S700 and BBPOS WisePOS E

The following table provides information relating to the compatibility of Xstore, EFTLink, and Stripe for payment terminal functionality in the context of OPI transaction types.

Note

Where there is no version noted for Xstore, it implies that the functionality is driven by EFTLink and the OPI Retail Core. Xstore is not required to implement any additional API feature.

Table 16-1 Stripe

Payment Terminal Function	Subtype	Oracle Payment Interface Retail Transaction Type	Xstore Release Version	EFTLink OPI Retail Core Release Version	Stripe OPI Connect or
Sign On		-	15.0	-	-
Sign Off		-	15.0	-	-
Card Payment	Payment by Credit	01	15.0	17.0	1.0
	Payment by Debit	01	15.0	17.0	1.0
	Manual Authorization	37, 07	-	17.0	-
	Instalments	01	-	19.0	-
	eWallet	01	-	19.0	-
	Shopper initiated on PED-EWallet button pressed on PED (Flow 1).				
Cashback	Cashback prompted on PED, return amount to POS	01	15.0	-	-
Check Payment / Check Verification	Payment by Check	51	17.0	18.0	-
Refund	Refund by Credit	03	15.0	17.0	1.0
	Refund by Debit	03	15.0	17.0	1.0
	Cardless Refund using Token	03	16.0	17.0	1.0

Table 16-1 (Cont.) Stripe

Payment Terminal Function	Subtype	Oracle Payment Interface Retail Transaction Type	Xstore Release Version	EFTLink OPI Retail Core Release Version	Stripe OPI Connector
Reversal	Reversal of last transaction	04	15.0	17.0	1.0
	Reversal of last transaction within batch	08	15.0	17.0	-
DCC (currency conversion)	Foreign exchange tender amount, rate, currency code Functionality that is driven through the Core plugin by virtue of the <DeviceRequest> / <DeviceResponse> API	01, 03, 20	17.0	18.0	-
Combined EFT/Tax Receipts	Defer customer copy to <CardServiceResponse>	-	16.0	17.0	-
Customer Display	Sale State Notification	43, 45	15.0	18.0	1.0
Card Swipe - non PCI Cards	Get card data	50	15.0	18.0	-
IP PED	Support for ethernet/ wireless connected PED device	-	NA	17.0	-
Customer Not Present	CVV2 / AVS / partial entry on PED	01	17.0	17.0	-
Electronic Signature Capture	3 byte ASCII (3BA)	01	15.0	18.0	-
Abort	Abort in flight transaction	53	17.0	18.0	1.0
Stored Value Cards (Gift Cards)	Redeem	30	16.0	18.0	-
	Redeem Reversal	31	16.0	18.0	-
	Cashback /Unload	32	16.0	18.0	-
	Load/Reload	28	16.0	18.0	-
	Refund	32	16.0	18.0	-
	Cash out (Close)	32	16.0.1	18.0	-
	Balance Inquiry	27	16.0	18.0	-
	Activate	29	16.0	18.0	-
	Activate and Load	29	16.0	18.0	-
	Activate Reversal	31	16.0	18.0	-
Reconciliation	Reconciliation with Closure functionality that is typically available via the hardware maintenance menu on the Xstore POS client, that is, uses the <ServiceRequest> / <ServiceResponse> API	10	15.0	17.0	-

Table 16-1 (Cont.) Stripe

Payment Terminal Function	Subtype	Oracle Payment Interface Retail Transaction Type	Xstore Release Version	EFTLink OPI Retail Core Release Version	Stripe OPI Connector
Custom Forms	Terminal Display	67	*	18.0	-
	Customer Question	60	*	18.0	1.0
	Phone Number Capture	62	*	18.0	1.0
	Email Address Capture	63	*	18.0	1.0
	Signature Capture	61	*	18.0	1.0
	Customer Buttons	65	*	18.0	1.0
	Display QR Code	68	*	18.0	-
	Cancel QR Code	69	*	18.0	-

* Denotes that the system integrator would have to implement this functionality in the Xstore custom overlay.

Verifone Payments Connector (FIPay OPI)

Operating Areas: United States, Canada, Puerto Rico, Mexico, Denmark, Estonia, Finland, France, Latvia, Lithuania, Netherlands, Norway, Portugal, Sweden, United Kingdom, Israel, Austria, New Zealand, Australia

Supported Terminals

The following terminals are supported:

- Verifone Engage (M400, M424, M440, P400, E-285, E-280, E-235)
- Verifone Trinity (T650, CM5)
- Verifone Android (M425, M450, Ux700, V660, P630)

The following table provides information relating to the compatibility of Xstore, EFTLink, and Verifone for payment terminal functionality in the context of OPI transaction types.

Note

Where there is no version noted for Xstore, it implies that the functionality is driven by EFTLink and the OPI Retail Core. Xstore is not required to implement any additional API feature.

Table 17-1 Verifone

Payment Terminal Function	Subtype	Oracle Payment Interface Retail Transaction Type	Xstore Release Version	EFTLink OPI Retail Core Release Version	Verifone Fipayeps
Sign On		-	15.0	-	-
Sign Off		-	15.0	-	-
Card Payment	Payment by Credit	01	15.0	17.0	2.3
	Payment by Debit	01	15.0	17.0	2.3
	Manual Authorization	37, 07	-	17.0	2.3
	Instalments	01	-	19.0	-
	eWallet	01	-	19.0	-
	Shopper initiated on PED-EWallet button pressed on PED (Flow 1).				
Cashback	Cashback prompted on PED, return amount to POS	01	15.0	-	-
Check Payment / Check Verification	Payment by Check	51	17.0	18.0	2.3

Table 17-1 (Cont.) Verifone

Payment Terminal Function	Subtype	Oracle Payment Interface Retail Transaction Type	Xstore Release Version	EFTLink OPI Retail Core Release Version	Verifone Fipayeps
Refund	Refund by Credit	03	15.0	17.0	2.3
	Refund by Debit	03	15.0	17.0	2.3
	Cardless Refund using Token	03	16.0	17.0	2.3
Reversal	Reversal of last transaction	04	15.0	17.0	2.3
	Reversal of last transaction within batch	08	15.0	17.0	-
DCC (currency conversion)	Foreign exchange tender amount, rate, currency code Functionality that is driven through the Core plugin by virtue of the <DeviceRequest> / <DeviceResponse> API	01, 03, 20	17.0	18.0	-
Combined EFT/Tax Receipts	Defer customer copy to <CardServiceResponse>	-	16.0	17.0	-
Customer Display	Sale State Notification	43, 45	15.0	18.0	-
Card Swipe - non PCI Cards	Get card data	50	15.0	18.0	-
IP PED	Support for ethernet/ wireless connected PED device	-	NA	17.0	-
Customer Not Present	CVV2 / AVS / partial entry on PED	01	17.0	17.0	2.3
Electronic Signature Capture	3 byte ASCII (3BA)	01	15.0	18.0	-
Abort	Abort in flight transaction	53	17.0	18.0	-
Stored Value Cards (Gift Cards)	Redeem	30	16.0	18.0	2.3
	Redeem Reversal	31	16.0	18.0	2.3
	Cashback /Unload	32	16.0	18.0	2.3
	Load/Reload	28	16.0	18.0	2.3
	Refund	32	16.0	18.0	2.3
	Cash out (Close)	32	16.0.1	18.0	2.3
	Balance Inquiry	27	16.0	18.0	2.3
	Activate	29	16.0	18.0	2.3
	Activate and Load	29	16.0	18.0	2.3
	Activate Reversal	31	16.0	18.0	2.3

Table 17-1 (Cont.) Verifone

Payment Terminal Function	Subtype	Oracle Payment Interface Retail Transaction Type	Xstore Release Version	EFTLink OPI Retail Core Release Version	Verifone Fipayeps
Reconciliation	Reconciliation with Closure functionality that is typically available via the hardware maintenance menu on the Xstore POS client, that is, uses the <ServiceRequest> / <ServiceResponse> API	10	15.0	17.0	-
Custom Forms	Terminal Display	67	*	18.0	-
	Customer Question	60	*	18.0	-
	Phone Number Capture	62	*	18.0	-
	Email Address Capture	63	*	18.0	-
	Signature Capture	61	*	18.0	-
	Customer Buttons	65	*	18.0	-
	Display QR Code	68	*	18.0	-
	Cancel QR Code	69	*	18.0	-

* Denotes that the system integrator would have to implement this functionality in the Xstore custom overlay.

Verifone PSDK

Operating Areas: France

Supported Terminals

The following terminals are supported:

- Verifone Engage E280
- Verifone Engage E285
- Verifone Engage M400
- Verifone Engage P200
- Verifone Engage P400
- Verifone Engage V200
- Verifone Engage V400

The following table provides information relating to the compatibility of Xstore, EFTLink and Verifone PSDK for payment terminal functionality in the context of OPI transaction types.

Note

Where there is no version noted for Xstore it implies that the functionality is driven by EFTLink and the OPI Retail Core. Xstore is not required to implement any additional API feature.

Table 18-1 Verifone

Payment Terminal Function	Subtype	Oracle Payment Interface Retail Transaction Type	Xstore Release Version	EFTLink OPI Retail Core Release Version	Verifone PSDK
Sign On		-	15.0	-	-
Sign Off		-	15.0	-	-
Card Payment	Payment by Credit	01	15.0	17.0	v2X.X.X
	Payment by Debit	01	15.0	17.0	v2X.X.X
	Manual Authorization	37, 07	-	17.0	-
	Instalments	01	-	19.0	-
	eWallet	01	-	19.0	-
	Shopper initiated on PED-EWallet button pressed on PED (Flow 1).				

Table 18-1 (Cont.) Verifone

Payment Terminal Function	Subtype	Oracle Payment Interface Retail Transaction Type	Xstore Release Version	EFTLink OPI Retail Core Release Version	Verifone PSDK
Cashback	Cashback prompted on PED, return amount to POS	01	15.0	-	-
Check Payment / Check Verification	Payment by Check	51	17.0	18.0	-
Refund	Refund by Credit	03	15.0	17.0	v2X.X.X
	Refund by Debit	03	15.0	17.0	v2X.X.X
	Cardless Refund using Token	03	16.0	17.0	v2X.X.X
Reversal	Reversal of last transaction	04	15.0	17.0	v2X.X.X
	Reversal of last transaction within batch	08	15.0	17.0	v2X.X.X
DCC (currency conversion)	Foreign exchange tender amount, rate, currency code Functionality that is driven through the Core plugin by virtue of the <DeviceRequest> / <DeviceResponse> API	01, 03, 07, 20	17.0	18.0	-
Combined EFT/Tax Receipts	Defer customer copy to <CardServiceResponse>		16.0	17.0	-
Customer Display	Sale State Notification	43, 45	15.0	18.0	-
Card Swipe - non PCI Cards	Get card data	50	15.0	18.0	-
IP PED	Support for ethernet/ wireless connected PED device	-	NA	17.0	v2X.X.X
Customer Not Present	CVV2 / AVS / partial entry on PED	01	17.0	17.0	v2X.X.X
Electronic Signature Capture	3 byte ASCII (3BA)	01	15.0	18.0	v2X.X.X
Abort	Abort in flight transaction	53	17.0	18.0	v2X.X.X
Stored Value Cards (Gift Cards)	Redeem	30	16.0	18.0	-
	Redeem Reversal	31	16.0	18.0	-
	Cashback /Unload	32	16.0	18.0	-
	Load/Reload	28	16.0	18.0	-
	Refund	32	16.0	18.0	-
	Cash out (Close)	32	16.0.1	18.0	-
	Balance Inquiry	27	16.0	18.0	-
	Activate	29	16.0	18.0	-

Table 18-1 (Cont.) Verifone

Payment Terminal Function	Subtype	Oracle Payment Interface Retail Transaction Type	Xstore Release Version	EFTLink OPI Retail Core Release Version	Verifone PSDK
	Activate and Load	29	16.0	18.0	-
	Activate Reversal	31	16.0	18.0	-
	Reconciliation	10	15.0	17.0	v2X.X.X
Custom Forms	Reconciliation with Closure functionality that is typically available via the hardware maintenance menu on the Xstore POS client, that is, uses the <ServiceRequest> / <ServiceResponse> API				
	Terminal Display	67	*	18.0	-
	Customer Question	60	*	18.0	-
	Phone Number Capture	62	*	18.0	-
	Email Address Capture	63	*	18.0	-
	Signature Capture	61	*	18.0	-
	Customer Buttons	65	*	18.0	-
	Display QR Code	68	*	18.0	-
	Cancel QR Code	69	*	18.0	-

* Denotes that the system integrator would have to implement this functionality in the Xstore custom overlay.