Oracle® Retail EFTLink

Xstore Compatibility Guide

Release 20.0

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Oracle® Retail EFTLink Xstore Compatibility Guide, Release 20.0

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Preface

The *Oracle Retail EFTLink Xstore Compatibility Guide* describes the compatibility of Oracle Retail Xstore and Oracle Retail EFTLink.

Audience

This guide is for the following audiences:

- System administrators and operations personnel

- Database administrators

- System analysts and programmers

- Integrators and implementation staff personnel

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Related Documents

For more information, see the following documents in the Oracle Retail EFTLink Release 20.0 documentation set:

- *Oracle Retail EFTLink Release Notes*

- *Oracle Retail EFTLink Core Configuration Guide*

- *Oracle Retail EFTLink Framework Installation and Configuration Guide*

- *Oracle Retail EFTLink Security Guide*

- *Oracle Retail EFTLink Rest API Guide*

- *Oracle Retail EFTLink Validated Partners Guide*

- *Oracle Retail EFTLink Validated OPI Partners Guide*

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- Screen shots of each step you take

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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.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
`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

This chapter provides an EFTLink and Xstore Compatibility Guide Overview.

EFTLink provides many features through its API which earlier versions of Xstore will not support. This guide provides the historical information about when Xstore integrated with each specific EFTLink feature in order to help our System Implementation (SI) Partners understand how best to make the choice of which EFTLink version they should adopt for their Xstore implementation. Due to the nature of the Xstore and EFTLink integration, SI Partners and their customers may feel more comfortable making customizations on earlier versions of Xstore to bring in additional EFTLink features from later versions of EFTLink in order to facilitate a faster implementation.

EFTLink Version History Overview

Oracle Retail EFTLink was officially brought into the Oracle Retail Xstore Suite for GA Version 15.0. The following chapters will detail features that have been introduced for each GA version since GA version 15.0 in order to make it clear what each version of EFTLink has brought to the market for each GA version since GA 15.0.

Xstore/EFTLink Core Compatibility

EFTLink Xstore GA 15.0 Compatibility

EFTLink Xstore GA 16.0 Compatibility

EFTLink Xstore GA 17.0 Compatibility

EFTLink Xstore GA 18.0 Compatibility

EFTLink Xstore GA 19.0 Compatibility

EFTLink Xstore GA 20.0 Compatibility

Xstore POS/EFTLink Version Compatibility

Oracle Retail EFTLink has always been backwards compatible with earlier versions of Xstore. The following table clearly illustrates which versions of Xstore can communicate with which versions of EFTLink. Please note that in each case the EFTLink client library must be imported into the `Xstore\lib\ext` folder.

Table 1–1   Xstore POS/EFTLink Version Compatibility

Oracle Retail Xstore POS	Oracle Retail EFTLink
v15.0, v15.0.1, v15.0.2, v15.0.3	v15.0, v15.0.1, v15.0.2
	v16.0, v16.0.1, v16.0.2, v16.0.3
	v17.0, v17.0.1, v17.0.2
	v18.0, v18.0.1
	v19.0, v19.0.1
v15.0, v15.0.1, v15.0.2, v15.0.3*	v20.0*
v16.0, v16.0.1, v16.0.2, v16.0.3, v16.0.4	v16.0, v16.0.1, v16.0.2, v16.0.3
	v17.0, v17.0.1, v17.0.2
	v18.0, v18.0.1
	v19.0, v19.0.1
v16.0, v16.0.1, v16.0.2, v16.0.3, v16.0.4*	v20.0*
v17.0, v17.0.1, v17.0.2, v17.0.3	v17.0, v17.0.1, v17.0.2
	v18.0, v18.0.1
	v19.0, v19.0.1
v17.0, v17.0.1, v17.0.2, v17.0.3*	v20.0*
v18.0, v18.0.1, v18.0.2	v18.0, v18.0.1
	v19.0, v19.0.1
v18.0, v18.0.1, v18.0.2*	v20.0*
v19.0, v19.0.1	v19.0, v19.0.1
v19.0, v19.0.1*	v20.0*
v20.0	v20.0

*Even though earlier versions of Xstore will be able to communicate with EFTLink v20.0 they will not be able to consume all the new features introduced in EFTLink v20.0 as they will have to use the last v19.0.1 EFTLink library. This library is compatible with earlier versions of Xstore but for v20.0 onwards Xstore and EFTLink had to change the way the XML was consumed as a result of removing the dependency on the JDOM2 library.

2

Xstore/EFTLink Core Compatibility

This chapter provides information relating to the release versions for compatibility of Xstore and EFTLink for payment terminal functionality in each Core.

Where Xstore does not support a function that is supported by one of the Cores, this would imply that a solution may be found in the customer overlay. If functionality is not listed here then assume that it does not exist in the Core EPS API or in the Xstore base.

Cores are listed geographically:

- International
- US Region
- European Region

Table 2–1   Supported Cores by Geographical Area

Geographical Area	Cores
International	Adyen
	OPI Retail
US Region	AJB FiPay
	Cayan
	Merchant Link
	Tender Retail
	Verifone Point US
European Region	Six Payment Services
	TLG SolveConnect
	Verifone Ocius Sentinel
	WorldPay

International

The following Cores are supported:

- Adyen
- OPI Retail

Adyen

Operating Areas: US, EU, AUS, Singapore

Supported Terminals: Verifone VX820, e355, MX925, P400, P400Plus, V440cPlus, V400m, VX680, VX690, M400, E285.

Table 2–2   Adyen

Payment Terminal Function	Subtype	Xstore Release Version	EFTLink Release Version
Sign On	NA	15.0	16.0
Sign Off	NA	15.0	16.0
Card Payment	Payment by Credit	15.0	16.0
	Payment by Debit	15.0	16.0
Refund	Refund by Credit	15.0	16.0
	Refund by Debit	15.0	16.0
	Cardless Refund using Token	16.0	16.0
Reversal	Reversal of last transaction	15.0	16.0
	Reversal of last transaction within batch	15.0	16.0
DCC (currency conversion)	Foreign exchange tender amount, rate, currency code	15.0	16.0
	Functionality that is driven through the Core plugin by virtue of the <DeviceRequest> / <DeviceResponse> API		
Token Support	Receive and record token for verified return	16.0	16.0
Combined EFT/Tax Receipts	Defer customer copy to <CardServiceResponse>	16.0	16.0
Customer Display	Sale State Notification	15.0	16.0.1
	Tender Lines	19.0	19.0
EFTLink server compliant	NA	NA	16.0
IP PED	NA	NA	16.0

Table 2–2   (Cont.) Adyen

Payment Terminal Function	Subtype	Xstore Release Version	EFTLink Release Version
Stored Value Cards (Gift Cards)	Redeem	16.0	16.0.1
	Redeem Reversal	16.0	16.0.1
	Load	16.0	16.0.1
	Refund	16.0	16.0.1
	Balance Inquiry	16.0	16.0.1
	Activate and Load	16.0	16.0.1
	Activate Reversal	16.0	16.0.1
	Cash Out (close)	16.0.1	18.0
Customer Not Present	CVV2/AVS/partial entry on PED	17.0	16.0.1

OPI Retail

Operating Countries: Please refer to *Oracle Retail EFTLink Validated OPI Partners Guide*.

Supported Terminals: Please refer to *Oracle Retail EFTLink Validated OPI Partners Guide*

Table 2–3   OPI Retail

Payment Terminal Function	Subtype	Xstore Release Version	EFTLink Release Version
Sign On	NA	15.0	17.0
Sign Off	NA	15.0	17.0
Card Payment	Payment by Credit	15.0	17.0
	Payment by Debit	15.0	17.0
	Manual Authorization	NA	17.0
	Payment by Installments	NA	19.0.1
Check Payment/Check Verification	Payment by Check	17.0	18.0
Refund	Refund by Credit	15.0	17.0
	Refund by Debit	15.0	17.0
	Cardless Refund using Token	16.0	18.0
Token Support	Receive and record token for verified return	16.0	18.0
Reversal	Reversal of last transaction	15.0	18.0
	Reversal of last transaction within batch	15.0	17.0
Transaction Inquiry	Time out handling	-	18.0.1
DCC (currency conversion)	Foreign exchange tender amount, rate, currency code	15.0	17.0
	Functionality that is driven through the Core plugin by virtue of the <DeviceRequest> / <DeviceResponse> API		

Table 2–3   (Cont.) OPI Retail

Payment Terminal Function	Subtype	Xstore Release Version	EFTLink Release Version
Combined EFT/Tax Receipts	Defer customer copy to <CardServiceResponse>	16.0	17.0
Customer Display	Sale State Notification	15.0	18.0
	Tender Lines	19.0	19.0
Stored Value Cards (Gift Cards)	Redeem	16.0	18.0
	Redeem Reversal	16.0	18.0
	Load	16.0	18.0
	Refund	16.0	18.0
	Balance Inquiry	16.0	18.0
	Activate and Load	16.0	18.0
	Activate Reversal	16.0	18.0
Customer Not Present	CVV2/AVS/partial entry on PED	17.0	17.0
Cashback	Cashback prompted on PED, return amount to POS	15.0	18.0
Electronic Signature Capture	3 byte ASCII (3BA)	15.0	18.0
Card Swipe - non PCI cards	Get card data	15.0	18.0
Custom Forms	Terminal Display	NA	18.0
	Customer Question	NA	18.0
	Signature Capture	NA	18.0
	Phone Number Capture	NA	18.0
	Generic Numeric Capture	NA	18.0
	Date of Birth Capture	NA	18.0
	Email Address Capture	NA	18.0
	Generic Alphanumeric Capture	NA	18.0
	Charity Donation	NA	18.0
	Customer Survey	NA	18.0
	Display QR Code	NA	18.0
	Cancel QR Code	NA	18.0
Reconciliation	Reconciliation with Closure	15.0	17.0
	Functionality that is typically available via the hardware maintenance menu on the Xstore POS client, that is, uses the <ServiceRequest> / <ServiceResponse> API.		

Table 2–3   (Cont.) OPI Retail

Payment Terminal Function	Subtype	Xstore Release Version	EFTLink Release Version
EWallet	Shopper initiated on PED - EWallet button pressed on PED (Flow 1).	NA	19.0
	Cashier initiated with EWallet tender - QR code displayed on PED (Flow 2).	NA	19.0
	Cashier initiated with EWallet tender - Scan QR code displayed on shopper's phone (Flow 3).	NA	19.0
2 stage payment	Card Inserted Event / update payment / tax free shopping.	NA	19.0
Quick Chip	Capture card details during sale.	NA	20.0
Card Token	Return Tokenized Card in Response	20.0	20.0
	Accept Tokenized Card in Request for Payment		

US Region

The following Cores are supported:

- AJB FiPay
- Cayan
- Merchant Link
- Tender Retail
- Verifone Point US

AJB FiPay

Operating Countries: USA, Canada

Supported Terminals: Verifone MX915, MX925

> **Note:** AJB FiPay has six different SVC providers and therefore each SVC action will need to be checked that the SVC provider supports it.

Table 2–4   AJB FiPay

Payment Terminal Function	Subtype	Xstore Release Version	EFTLink Release Version
Card Payment	Payment by Credit	15.0	15.0
	Payment by Debit	15.0	15.0
Check Payment/Check Verification	Payment by Check	17.0	17.0
Refund	Refund by Credit	15.0	15.0
	Refund by Debit	15.0	15.0
	Cardless Refund using Token	16.0	15.0
	Cardless Refund using Token + Expiry Date	16.0	16.0.0.1
Reversal	Reversal of last transaction	15.0	15.0
	Reversal of last transaction within batch	15.0	15.0
Customer Not Present	CVV2/AVS/partial entry on PED	17.0	16.0.0.1
Electronic Signature Capture	3 byte ASCII (3BA)	15.0	15.0
Token Support	Receive and record token for verified return	16.0	15.0
Card Swipe - non PCI cards	Get card data	15.0	15.0.1
Combined EFT/Tax Receipts	Defer customer copy to <CardServiceResponse>	16.0	16.0
Customer Display	Sale State Notification	15.0	15.0
	Tender Lines	19.0	19.0
IP PED	NA	NA	15.0

Table 2–4   (Cont.) AJB FiPay

Payment Terminal Function	Subtype	Xstore Release Version	EFTLink Release Version
Stored Value Cards (Gift Cards)	Redeem	16.0	16.0
	Redeem Reversal	16.0	16.0
	Cashback / Unload	16.0	16.0
	Load	16.0	16.0
	Refund	16.0	16.0
	Cash out (Close)	16.0.1	16.0
	Balance Inquiry	16.0	16.0
	Activate	16.0	16.0
	Activate and Load	16.0	16.0
	Activate Reversal	NA	16.0
	Deactivate / Stop	NA	16.0
	Deactivate / Stop Reversal	NA	16.0
Custom Forms	Terminal Display	NA	18.0
	Customer Question	NA	18.0
	Signature Capture	NA	18.0
	Phone Number Capture	NA	18.0

Cayan

Operating Countries: USA

Supported Terminals: Verifone MX925

Table 2–5   Cayan

Payment Terminal Function	Subtype	Xstore Release Version	EFTLink Release Version
Sign On	NA	15.0	16.0
Card Payment	Payment by Credit	15.0	16.0
	Payment by Debit	15.0	16.0
Refund	Refund by Credit	15.0	16.0
	Refund by Debit	15.0	16.0
	Cardless Refund using Token	16.0	16.0
Reversal	Reversal of last transaction	15.0	16.0
	Reversal of last transaction within batch	15.0	16.0
Customer Not Present	CVV2/AVS/partial entry on PED	17.0	17.0
Cashback	Cashback prompted on PED, return amount to POS	15.0	16.0
Electronic Signature Capture	3 byte ASCII (3BA)	15.0	16.0
Gratuity	NA	NA	16.0
Token Support	Receive and record token for verified return	16.0	16.0
Combined EFT/Tax Receipts	Defer customer copy to <CardServiceResponse>	16.0	16.0
Customer Display	Sale State Notification	15.0	16.0
	Tender Lines	19.0	19.0
IP PED	NA	NA	16.0
Stored Value Cards (Gift Cards)	Redeem	16.0	16.0
	Redeem Reversal	16.0	16.0
	Load	16.0	16.0
	Balance Inquiry	16.0	16.0
	Activate Reversal	16.0	16.0
Custom Forms	Customer Question	NA	18.0
	Phone Number Capture	NA	18.0
	Generic Numeric Capture	NA	18.0
	Date Capture	NA	18.0
	Signature Capture	NA	18.0
	Cancel Signature Capture	NA	18.0

Merchant Link

Operating Countries: USA

Supported Terminals: Verifone MX925

Table 2–6   Merchant Link

Payment Terminal Function	Subtype	Xstore Release Version	EFTLink Release Version
Card Payment	Payment by Credit	15.0	16.0
	Payment by Debit	15.0	16.0
Refund	Refund by Credit	15.0	16.0
	Refund by Debit	15.0	16.0
	Cardless Refund using Token	16.0	16.0
Reversal	Reversal of last transaction	15.0	16.0
	Reversal of last transaction within batch	15.0	16.0
Reconciliation	Reconciliation with Closure	15.0	16.0
	Functionality that is typically available via the hardware maintenance menu on the Xstore POS client, that is, uses the <ServiceRequest> / <ServiceResponse> API.		
	Manual entry initiated by PED	NA	16.0
Electronic Signature Capture	3 byte ASCII (3BA)	15.0	16.0
Token Support	Receive and record token for verified return	16.0	16.0
Card Swipe-non PCI cards	Get card data	15.0	16.0
Combined EFT/Tax Receipts	Defer customer copy to <CardServiceResponse>	16.0	16.0
Customer Display	Sale State Notification	15.0	16.0
	Tender Lines	19.0	19.0
EFTLink server compliant	NA	NA	16.0
IP PED	NA	NA	16.0

Table 2–6   (Cont.) Merchant Link

Payment Terminal Function	Subtype	Xstore Release Version	EFTLink Release Version
Stored Value Cards (Gift Cards)	Redeem	16.0	16.0
	Redeem Reversal	16.0	16.0
	Cashback / Unload	16.0	16.0
	Load	16.0	16.0
	Refund	16.0	16.0
	Balance Inquiry	16.0	16.0
	Activate	16.0	16.0
	Activate Reversal	16.0	16.0
	Deactivate / Stop	NA	16.0
	Deactivate / Stop Reversal	NA	16.0

Tender Retail

Operating Countries: USA, Canada

Supported Terminals: Verifone MX915, MX925

Table 2–7   Tender Retail

Payment Terminal Function	Subtype	Xstore Release Version	EFTLink Release Version
Card Payment	Payment by Credit	15.0	17.0
	Payment by Debit	15.0	17.0
Refund	Refund by Credit	15.0	17.0
	Refund by Debit	15.0	17.0
	Cardless Refund using Token	16.0	17.0
Reversal	Reversal of last transaction	15.0	17.0
	Reversal of last transaction within batch	15.0	17.0
Reconciliation	Reconciliation with Closure	15.0	17.0
	Functionality that is typically available via the hardware maintenance menu on the Xstore POS client, that is, uses the <ServiceRequest> / <ServiceResponse> API.		
Customer Not Present	CVV2/AVS/partial entry on PED	17.0	17.0
Electronic Signature Capture	3 byte ASCII (3BA)	15.0	17.0
Token Support	Receive and record token for verified return	16.0	17.0
Card Swipe-non PCI cards	Get card data	15.0	NA
	Get card data with abort	16.0	NA

Table 2–7   (Cont.) Tender Retail

Payment Terminal Function	Subtype	Xstore Release Version	EFTLink Release Version
Combined EFT/Tax Receipts	Defer customer copy to <CardServiceResponse	16.0	17.0
Customer Display	Sale State Notification	15.0	17.0
	Tender Lines	19.0	19.0
Stored Value Cards (Gift Cards)	Redeem	16.0	17.0
	Redeem Reversal	16.0	17.0
	Cashback / Unload	16.0	17.0
	Load	16.0	17.0
	Balance Inquiry	16.0	17.0
	Activate	16.0	17.0
	Activate Reversal	16.0	17.0
	Deactivate / Stop	NA	NA
	Deactivate / Stop Reversal	NA	NA
EWallet	Payment. Cashier initiated with EWallet tender - QR displayed on the shoppers phone and scanned by the POS (flow 3).	NA	19.0.1
	Refund	NA	19.0.1
	Cancel	NA	19.0.1

Verifone Point US

Operating Countries: USA

Supported Terminals: Verifone MX915, MX925

Table 2–8   Verifone Point US

Payment Terminal Function	Subtype	Xstore Release Version	EFTLink Release Version
Card Payment	Payment by Credit	15.0	15.0
	Payment by Debit	15.0	15.0
Refund	Refund by Credit	15.0	15.0
	Refund by Debit	15.0	15.0
	Cardless Refund using Token	16.0	15.0.1
	Cardless Refund using Token + Expiry Date	16.0	15.0.1
Reversal	Reversal of last transaction	15.0	15.0
	Reversal of last transaction within batch	15.0	15.0
Reconciliation	Reconciliation with Closure	15.0	15.0
	Functionality that is typically available via the hardware maintenance menu on the Xstore POS client, that is, uses the <ServiceRequest> / <ServiceResponse> API.		
Customer Not Present	CVV2/AVS/partial entry on PED	NA	16.0
Electronic Signature Capture	3 byte ASCII (3BA)	15.0	15.0
Gratuity	NA	NA	15.0
Token Support	Receive and record token for verified return	16.0	15.0.1
Card Swipe-non PCI cards	Get card data	15.0	15.0
	Get card data with abort	16.0	15.0.1
Combined EFT/Tax Receipts	Defer customer copy to <CardServiceResponse>	16.0	15.0
Customer Display	Sale State Notification	15.0	15.0
	Tender Lines	19.0	19.0
IP PED	NA	NA	15.0

Table 2–8   (Cont.) Verifone Point US

Payment Terminal Function	Subtype	Xstore Release Version	EFTLink Release Version
Stored Value Cards (Gift Cards)	Redeem	16.0	16.0
	Redeem Reversal	16.0	16.0
	Cashback / Unload	16.0	16.0
	Load	16.0	16.0
	Balance Inquiry	16.0	16.0
	Activate	16.0	16.0
	Activate Reversal	16.0	16.0
	Deactivate / Stop	16.0	16.0
	Deactivate / Stop Reversal	NA	16.0
Custom Forms	Terminal Display	NA	17.0.1
	Customer Question	NA	17.0.1
	Phone Number Capture	NA	17.0.1
	Email Address Capture	NA	17.0.1
	Signature Capture	NA	17.0.1
	Charity Donation	NA	17.0.1
	Customer Survey	NA	17.0.1
	Customer Buttons	NA	17.0.1
	Display QR Code	NA	17.0.1
	Cancel QR Code	NA	17.0.1

European Region

The following Cores are supported:

- Six Payment Services
- TLG SolveConnect
- Verifone Ocius Sentinel
- WorldPay

Six Payment Services

Operating Countries: Europe

Supported Terminals: Yomani

Table 2–9   Six Payment Services

Payment Terminal Function	Subtype	Xstore Release Version	EFTLink Release Version
Sign On	NA	15.0	15.0
Sign Off	NA	15.0	15.0
Card Payment	Payment by Credit	15.0	15.0
	Payment by Debit	15.0	15.0
Refund	Refund by Credit	15.0	15.0
	Refund by Debit	15.0	15.0
Reversal	Reversal of last transaction	15.0	15.0
	Reversal of last transaction within batch	15.0	15.0
Reconciliation	Reconciliation with Closure	15.0	15.0
	Functionality that is typically available via the hardware maintenance menu on the Xstore POS client, that is, uses the <ServiceRequest> / <ServiceResponse> API.		
Customer Not Present	CVV2/AVS/partial entry on PED	17.0	15.0
Combined EFT/Tax Receipts	Defer customer copy to <CardServiceResponse>	16.0	15.0
EFTLink server compliant	NA	NA	15.0
IP PED	NA	NA	15.0

TLG SolveConnect

Operating Countries: UK

Supported Terminals: Ingenico, Verifone VX820, VX680

Table 2–10   TLG SolveConnect

Payment Terminal Function	Subtype	Xstore Release Version	EFTLink Release Version
Card Payment	Payment by Credit	15.0	15.0
	Payment by Debit	15.0	15.0
Refund	Refund by Credit	15.0	15.0
	Refund by Debit	15.0	15.0
	Cardless Refund using Token	16.0	15.0
Reversal	Reversal of last transaction	15.0	16.0
	Reversal of last transaction within batch	15.0	16.0
DCC (currency conversion)	Foreign exchange tender amount, rate, currency code	17.0	16.0
	Functionality that is driven through the Core plugin by virtue of the <DeviceRequest> / <DeviceResponse> API.		
Cashback	Cashback prompted on PED, return amount to POS	15.0	15.0
Customer Not Present	CVV2/AVS/partial entry on PED	17.0	15.0
Gratuity	NA	NA	15.0
Token Support	Receive and record token for verified return	16.0	15.0
Card Swipe - non PCI cards	Get card data	15.0	15.0
Combined EFT/Tax Receipts	Defer customer copy to <CardServiceResponse>	16.0	16.0
	Suppress Merchant copy for EMV Chip transactions	NA	16.0
Ticket Reprint (Direct)		NA	15.0
EFTLink server compliant		NA	16.0
IP PED		NA	16.0
2 stage payment	Card Inserted Event / update payment	NA	15.0
Stored Value Cards (Gift Cards)	Redeem	16.0	15.0
Stored Value Cards (Gift Cards)	Redeem Reversal	16.0	15.0
	Cashback / Unload	16.0	15.0
	Load	16.0	15.0
	Balance Inquiry	16.0	15.0

Verifone Ocius Sentinel

Operating Countries: UK

Supported Terminals: Verifone VX 810, VX820

Table 2–11   Verifone Ocius Sentinel

Payment Terminal Function	Subtype	Xstore Release Version	EFTLink Release Version
Sign On	NA	15.0	15.0
Sign Off	NA	15.0	15.0
Card Payment	Payment by Credit	15.0	15.0
	Payment by Debit	15.0	15.0
Check Payment/Check Verification		17.0	15.0
Refund	Refund by Credit	15.0	15.0
	Refund by Debit	15.0	15.0
	Cardless Refund using Token	16.0	15.0
Reconciliation	Reconciliation with Closure	15.0	15.0
	Functionality that is typically available via the hardware maintenance menu on the Xstore POS client, that is, uses the <ServiceRequest> / <ServiceResponse> API.		
DCC (currency conversion)	Foreign exchange tender amount, rate, currency code	17.0	15.0
	Functionality that is driven through the Core plugin by virtue of the <DeviceRequest> / <DeviceResponse> API.		
Cashback	Cashback prompted on PED, return amount to POS	15.0	15.0
Customer Not Present	CVV2/AVS/partial entry on PED	17.0	15.0
Gratuity	NA	NA	15.0
Token Support	Receive and record token for verified return	16.0	15.0
Card Swipe - non PCI cards	Get card data	15.0	15.0
Combined EFT/Tax Receipts	Defer customer copy to <CardServiceResponse>	16.0	15.0
	Suppress Merchant copy for EMV Chip transactions	NA	15.0
	Create receipt from XML elements provided by EPS	NA	15.0
Ticket Reprint (Direct)	NA	NA	15.0
IP PED	NA	NA	15.0
	Card read, card payment	16.0	15.0

Table 2–11   (Cont.) Verifone Ocius Sentinel

Payment Terminal Function	Subtype	Xstore Release Version	EFTLink Release Version
Stored Value Cards (Gift Cards) Gift cards are supported on the VX820 only.	Redeem	16.0	15.0
	Redeem Reversal	16.0	15.0
	Cashback / Unload	16.0	15.0
	Load	16.0	15.0
	Balance Inquiry	16.0	15.0
	Activate	16.0	15.0

WorldPay

Operating Countries: UK

Supported Terminals: Verifone VX820

Table 2–12   WorldPay

Payment Terminal Function	Subtype	Xstore Release Version	EFTLink Release Version
Sign On	NA	15.0	15.0
Card Payment	Payment by Credit	15.0	15.0
	Payment by Debit	15.0	15.0
Refund	Refund by Credit	15.0	15.0
	Refund by Debit	15.0	15.0
	Cardless Refund using Token	16.0	15.0
Reconciliation	Reconciliation with Closure	15.0	15.0
	Functionality that is typically available via the hardware maintenance menu on the Xstore POS client, that is, uses the <ServiceRequest> / <ServiceResponse> API.		
DCC (currency conversion)	Foreign exchange tender amount, rate, currency code	17.0	15.0
	Functionality that is driven through the Core plugin by virtue of the <DeviceRequest> / <DeviceResponse> API.		
Cashback	Cashback prompted on PED, return amount to POS	NA	15.0
Token Support	Receive and record token for verified return	16.0	15.0
Combined EFT/Tax Receipts	Defer customer copy to <CardServiceResponse>	16.0	15.0
	Suppress Merchant copy for EMV Chip transactions	NA	15.0
IP PED	NA	NA	15.0

3

EFTLink Xstore GA 15.0 Compatibility

This chapter provides feature compatibility information relating to the Xstore EFTLink GA versions. The lists below splits out the features by product so it is clear what features EFTLink supports and which features Xstore implemented at that same time.

EFTLink Features Introduced and Supported in GA Release v15.0

- Logon
- Logoff
- Abort
- Sale
    - DCC (Dynamic Currency Conversion)
    - Cash Back
    - Customer Not Present
- Refund
- Tokenized Refund
- Reversal (Void)
    - Reversal of last transaction
    - Reversal of last transaction within batch (Post Void)
- Combined Receipts
- Stored Value Cards
    - Redeem
    - Redeem Reversal
    - Load
    - Load Reversal
    - Activate
    - Activate Reversal
    - Deactivate
    - Deactivate Reversal
    - Balance Inquiry
    - Cash Out

- Card Read (Non PCI Cards)
- Customer Display - Sale State Notification
- 3 Byte Ascii (3BA) Signature Support
- Maintenance Functions
- Server Mode
- PED Pooling in Server Mode

EFTLink Features Integrated to Xstore for GA Release v15.0

- Logon
- Sale
- Refund
- Tokenized Refund
- Reversal (Void)
  - Reversal of last transaction
  - Reversal of last transaction within batch (Post Void)
- Customer Display - Sale State Notification
  - Start
  - Sale in Progress
  - Sale End
- 3 Byte Ascii (3BA) Signature Support
- Maintenance Functions

4

EFTLink Xstore GA 16.0 Compatibility

This chapter provides feature compatibility information relating to the Xstore EFTLink GA versions. The lists below splits out the features by product so it is clear what features EFTLink supports and which features Xstore implemented at that same time.

EFTLink Features Introduced and Supported in GA Release v16.0
 [added features are bold]

- Logon
- Logoff
- Abort
- Sale
    - DCC (Dynamic Currency Conversion)
    - Cash Back
    - Customer Not Present
    - Offline Referral
    - Transaction Token Support
    - **Card Acquisition [Tax Free Shopping Support]**
- Refund
- Tokenized Refund
- Reversal (Void)
    - Reversal of last transaction
    - Reversal of last transaction within batch (Post Void)
- Combined Receipts
- Stored Value Cards
    - Redeem
    - Redeem Reversal
    - Load
    - Load Reversal
    - Activate
    - Activate Reversal

- Deactivate

- Deactivate Reversal

- Balance Inquiry

- Cash Out

- Card Read (Non PCI Cards)

- Customer Display - Sale State Notification

- 3 Byte Ascii (3BA) Signature Support

- Maintenance Functions

- Server Mode

- PED Pooling in Server Mode

EFTLink Features Integrated to Xstore for GA Release v16.0

- Logon

- Sale

  - **Transaction Token Support**

- Refund

- **Tokenized Refund**

- Reversal (Void)

  - Reversal of last transaction

  - Reversal of last transaction within batch (Post Void)

- Customer Display - Sale State Notification

  - Start

  - Sale in Progress

  - Sale End

- 3 Byte Ascii (3BA) Signature Support

- Maintenance Functions

- **Combined Receipts**

- **Stored Value Cards**

  - **Redeem**

  - **Redeem Reversal**

  - **Load**

  - **Load Reversal**

  - **Activate**

  - **Activate Reversal**

  - **Balance Inquiry**

  - **Cash Out**

5

EFTLink Xstore GA 17.0 Compatibility

This chapter provides feature compatibility information relating to the Xstore EFTLink GA versions. The lists below splits out the features by product so it is clear what features EFTLink supports and which features Xstore implemented at that same time.

EFTLink Features Introduced and Supported in GA Release v17.0
[added features are bold]

- Logon
- Logoff
- Abort
- Sale
    - DCC (Dynamic Currency Conversion)
    - Cash Back
    - Customer Not Present
    - Offline Referral
    - Transaction Token Support
    - Card Acquisition [Tax Free Shopping Support]
- Refund
- Tokenized Refund
- **Check Payment / Verification**
- Reversal (Void)
    - Reversal of last transaction
    - Reversal of last transaction within batch (Post Void)
- Combined Receipts
- Stored Value Cards
    - Redeem
    - Redeem Reversal
    - Load
    - Load Reversal
    - Activate

- – Activate Reversal

- – Deactivate

- – Deactivate Reversal

- – Balance Inquiry

- – Cash Out

■ Card Read (Non PCI Cards)

■ Customer Display - Sale State Notification

■ 3 Byte Ascii (3BA) Signature Support

■ Maintenance Functions

■ Server Mode

■ PED Pooling in Server Mode

EFTLink Features Integrated to Xstore for GA Release v17.0

■ Logon

■ Sale

- – Transaction Token Support

- – **Customer Not Present**

- – **DCC (Dynamic Currency Conversion)**

■ Refund

■ **Tokenized Refund**

■ Check Payment / Verification

■ Reversal (Void)

- – Reversal of last transaction

- – Reversal of last transaction within batch (Post Void)

■ Customer Display - Sale State Notification

- – Start

- – Sale in Progress

- – Sale End

■ 3 Byte Ascii (3BA) Signature Support

■ Maintenance Functions

■ Combined Receipts

■ Stored Value Cards

- – Redeem

- – Redeem Reversal

- – Load

- – Load Reversal

- – Activate

- – Activate Reversal

- – Balance Inquiry
- – Cash Out

6

EFTLink Xstore GA 18.0 Compatibility

This chapter provides feature compatibility information relating to the Xstore EFTLink GA versions. The lists below splits out the features by product so it is clear what features EFTLink supports and which features Xstore implemented at that same time.

EFTLink Features Introduced and Supported in GA Release v18.0

[added features are bold]

- Logon
- Logoff
- Abort
- Sale
    - DCC (Dynamic Currency Conversion)
    - Cash Back
    - Customer Not Present
    - Offline Referral
    - Transaction Token Support
    - Card Acquisition [Tax Free Shopping Support]
- Refund
- Tokenized Refund
- Check Payment / Verification
- Reversal (Void)
    - Reversal of last transaction
    - Reversal of last transaction within batch (Post Void)
- Combined Receipts
- Stored Value Cards
    - Redeem
    - Redeem Reversal
    - Load
    - Load Reversal
    - Activate

- Activate Reversal

- Deactivate

- Deactivate Reversal

- Balance Inquiry

- Cash Out

- Card Read (Non PCI Cards)

- Customer Display - Sale State Notification

- 3 Byte Ascii (3BA) Signature Support

- Maintenance Functions

- Server Mode

- PED Pooling in Server Mode

- **Custom Forms**

EFTLink Features Integrated to Xstore for GA Release v18.0

- Logon

- Sale

  - Transaction Token Support

  - Customer Not Present

  - DCC (Dynamic Currency Conversion)

  - Card Acquisition [Tax Free Shopping Support]

- Refund

- Tokenized Refund

- Check Payment / Verification

- Reversal (Void)

  - Reversal of last transaction

  - Reversal of last transaction within batch (Post Void)

- Customer Display - Sale State Notification

  - Start

  - Sale in Progress

  - Sale End

- 3 Byte Ascii (3BA) Signature Support

- Maintenance Functions

- Combined Receipts

- Stored Value Cards

  - Redeem

  - Redeem Reversal

  - Load

  - Load Reversal

- Activate
- Activate Reversal
- Balance Inquiry
- Cash Out

7

EFTLink Xstore GA 19.0 Compatibility

This chapter provides feature compatibility information relating to the Xstore EFTLink GA versions. The lists below splits out the features by product so it is clear what features EFTLink supports and which features Xstore implemented at that same time.

EFTLink Features Introduced and Supported in GA Release v19.0
 [added features are bold]

- Logon
- Logoff
- Abort
- Sale
    - DCC (Dynamic Currency Conversion)
    - Cash Back
    - Customer Not Present
    - Offline Referral
    - Transaction Token Support
    - Card Acquisition [Tax Free Shopping Support]
    - **EWallet**
    - **Installments**
- Refund
    - Credit/Debit
    - **EWallet**
- Tokenized Refund
    - Credit/Debit
    - **EWallet**
- Check Payment / Verification
- Reversal (Void)
    - Credit/Debit
    - **EWallet**
    - Reversal of last transaction

- – Reversal of last transaction within batch (Post Void)
- Combined Receipts
- Stored Value Cards
  - – Redeem
  - – Redeem Reversal
  - – Load
  - – Load Reversal
  - – Activate
  - – Activate Reversal
  - – Deactivate
  - – Deactivate Reversal
  - – Balance Inquiry
  - – Cash Out
- Card Read (Non PCI Cards)
- Customer Display - Sale State Notification
  - – **Tender Lines**
- 3 Byte Ascii (3BA) Signature Support
- Maintenance Functions
- Server Mode
- PED Pooling in Server Mode
- Custom Forms
- **Record Payment Provider (Prevent cross tokens)**

EFTLink Features Integrated to Xstore for GA Release v19.0
- Logon
- Sale
  - – Transaction Token Support
  - – Customer Not Present
  - – DCC (Dynamic Currency Conversion)
  - – Card Acquisition [Tax Free Shopping Support]
  - – **EWallet**
  - – **Installments**
- Refund
  - – Credit/Debit
  - – **EWallet**
- Tokenized Refund
  - – Credit/Debit
  - – **EWallet**

- Check Payment / Verification
- Reversal (Void)
  - Credit/Debit
  - **EWallet**
  - Reversal of last transaction
  - Reversal of last transaction within batch (Post Void)
- Customer Display - Sale State Notification
  - Start
  - Sale in Progress
  - Sale End
  - **Tender Lines**
- 3 Byte Ascii (3BA) Signature Support
- Maintenance Functions
- Combined Receipts
- Stored Value Cards
  - Redeem
  - Redeem Reversal
  - Load
  - Load Reversal
  - Activate
  - Activate Reversal
  - Balance Inquiry
  - Cash Out
- **Record Payment Provider (Prevent cross tokens)**

8

EFTLink Xstore GA 20.0 Compatibility

This chapter provides feature compatibility information relating to the Xstore EFTLink GA versions. The lists below splits out the features by product so it is clear what features EFTLink supports and which features Xstore implemented at that same time.

EFTLink Features Introduced and Supported in GA Release v20.0

[added features are bold]

- Logon
- Logoff
- Abort
- Sale
    - DCC (Dynamic Currency Conversion)
    - Cash Back
        * **Disable Cashback for SCO Mode**
    - Customer Not Present
    - Offline Referral
    - Transaction Token Support
    - Card Acquisition [Tax Free Shopping Support]
    - EWallet
    - Installments
    - Card Token
        * Return Tokenized Card in Response
        * Accept Tokenized Card in Request for Payment
- Refund
    - Credit/Debit
    - EWallet
- Tokenized Refund
    - Credit/Debit
    - EWallet
- Check Payment / Verification

- **Support Check Image**
- Reversal (Void)
  - Credit/Debit
  - EWallet
  - Reversal of last transaction
  - Reversal of last transaction within batch (Post Void)
- Combined Receipts
- Stored Value Cards
  - Redeem
  - Redeem Reversal
  - Load
  - Load Reversal
  - Activate
  - Activate Reversal
  - Deactivate
  - Deactivate Reversal
  - Balance Inquiry
  - Cash Out
- Card Read (Non PCI Cards)
- Customer Display - Sale State Notification
  - Tender Lines
- 3 Byte Ascii (3BA) Signature Support
- Maintenance Functions
- Server Mode
- PED Pooling in Server Mode
  - **PED Identification**
  - **Support Line Display for Default PED**
- **Multiple Core Support**
  - **EWallet**
  - **Stored Value Cards**
- Custom Forms
- Record Payment Provider (Prevent cross tokens)
- **REST API**
  - **Support custom applications using Xservices integrations**

EFTLink Features Integrated to Xstore for GA Release v20.0

- Logon
- Sale
    - Transaction Token Support
    - Customer Not Present
    - DCC (Dynamic Currency Conversion)
    - Cash Back
        * **Disable Cashback for SCO Mode**
    - Card Acquisition [Tax Free Shopping Support]
    - EWallet
    - Installments
- **Card Token**
    - **Record Tokenized Card from EFTLink Response**
    - **Send Tokenized Card in Request for Payment**
- Refund
    - Credit/Debit
    - EWallet
- Tokenized Refund
    - Credit/Debit
    - EWallet
- Check Payment / Verification
- Reversal (Void)
    - Credit/Debit
    - EWallet
    - Reversal of last transaction
    - Reversal of last transaction within batch (Post Void)
- Customer Display - Sale State Notification
    - Start
    - Sale in Progress
    - Sale End
    - Tender Lines
- 3 Byte Ascii (3BA) Signature Support
- Maintenance Functions
- Combined Receipts
- Stored Value Cards
    - Redeem
    - Redeem Reversal

- Load
- Load Reversal
- Activate
- Activate Reversal
- Balance Inquiry
- Cash Out

■ Record Payment Provider (Prevent cross tokens)