

Oracle® Retail EFTLink
Validated Partner Cores Guide
Release 17.0
E93420-01

October 2018

Copyright © 2018, Oracle and/or its affiliates. All rights reserved.

Primary Author: Tracy Gunston

Contributor: Matthew Preston, Ian Williams

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this is software or related documentation that is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, then the following notice is applicable:

U.S. GOVERNMENT END USERS: Oracle programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, delivered to U.S. Government end users are "commercial computer software" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, shall be subject to license terms and license restrictions applicable to the programs. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Xeon are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Opteron, the AMD logo, and the AMD Opteron logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group.

This software or hardware and documentation may provide access to or information about content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services unless otherwise set forth in an applicable agreement between you and Oracle. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services, except as set forth in an applicable agreement between you and Oracle.

Value-Added Reseller (VAR) Language

Oracle Retail VAR Applications

The following restrictions and provisions only apply to the programs referred to in this section and licensed to you. You acknowledge that the programs may contain third party software (VAR applications) licensed to Oracle. Depending upon your product and its version number, the VAR applications may include:

- (i) the **MicroStrategy** Components developed and licensed by MicroStrategy Services Corporation (MicroStrategy) of McLean, Virginia to Oracle and imbedded in the MicroStrategy for Oracle Retail Data Warehouse and MicroStrategy for Oracle Retail Planning & Optimization applications.
- (ii) the **Wavelink** component developed and licensed by Wavelink Corporation (Wavelink) of Kirkland, Washington, to Oracle and imbedded in Oracle Retail Mobile Store Inventory Management.
- (iii) the software component known as **Access Via**™ licensed by Access Via of Seattle, Washington, and imbedded in Oracle Retail Signs and Oracle Retail Labels and Tags.
- (iv) the software component known as **Adobe Flex**™ licensed by Adobe Systems Incorporated of San Jose, California, and imbedded in Oracle Retail Promotion Planning & Optimization application.

You acknowledge and confirm that Oracle grants you use of only the object code of the VAR Applications. Oracle will not deliver source code to the VAR Applications to you. Notwithstanding any other term or condition of the agreement and this ordering document, you shall not cause or permit alteration of any VAR

Applications. For purposes of this section, "alteration" refers to all alterations, translations, upgrades, enhancements, customizations or modifications of all or any portion of the VAR Applications including all reconfigurations, reassembly or reverse assembly, re-engineering or reverse engineering and recompilations or reverse compilations of the VAR Applications or any derivatives of the VAR Applications. You acknowledge that it shall be a breach of the agreement to utilize the relationship, and/or confidential information of the VAR Applications for purposes of competitive discovery.

The VAR Applications contain trade secrets of Oracle and Oracle's licensors and Customer shall not attempt, cause, or permit the alteration, decompilation, reverse engineering, disassembly or other reduction of the VAR Applications to a human perceivable form. Oracle reserves the right to replace, with functional equivalent software, any of the VAR Applications in future releases of the applicable program.

Content

Send Us Your Comments	vii
Preface	ix
Audience	ix
Documentation Accessibility	ix
Customer Support	ix
Review Patch Documentation	x
Improved Process for Oracle Retail Documentation Corrections	x
Oracle Retail Documentation on the Oracle Technology Network	x
Conventions	x
1 Overview	
2 FreedomPay	

Send Us Your Comments

Oracle® Retail EFTLink Validated Partner Cores Guide, 17.0

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

Your feedback is important, and helps us to best meet your needs as a user of our products. For example:

- Are the implementation steps correct and complete?
- Did you understand the context of the procedures?
- Did you find any errors in the information?
- Does the structure of the information help you with your tasks?
- Do you need different information or graphics? If so, where, and in what format?
- Are the examples correct? Do you need more examples?

If you find any errors or have any other suggestions for improvement, then please tell us your name, the name of the company who has licensed our products, the title and part number of the documentation and the chapter, section, and page number (if available).

Note: Before sending us your comments, you might like to check that you have the latest version of the document and if any concerns are already addressed. To do this, access the Online Documentation available on the Oracle Technology Network Web site. It contains the most current Documentation Library plus all documents revised or released recently.

Send your comments to us using the electronic mail address: retail-doc_us@oracle.com

Please give your name, address, electronic mail address, and telephone number (optional).

If you need assistance with Oracle software, then please contact your support representative or Oracle Support Services.

If you require training or instruction in using Oracle software, then please contact your Oracle local office and inquire about our Oracle University offerings. A list of Oracle offices is available on our Web site at <http://www.oracle.com>.

Preface

The Oracle® Retail EFTLink Validated Partner Cores Guide provides information relating to the release versions for compatibility of Xstore and EFTLink for payment terminal functionality of each Oracle Partner Core.

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

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at

<http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

Access to Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit

<http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info> or visit

<http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> if you are hearing impaired.

Related Documents

For more information, see the following documents in the Oracle Retail EFTLink Release 17.0 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*

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, 17.0) or a later patch release (for example, 17.0.x). 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 on the Oracle Technology Network Web site, 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 on the Oracle Technology Network at the following URL:

<http://www.oracle.com/technetwork/documentation/oracle-retail-100266.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 E123456-02 is an updated version of a document with part number E123456-01.

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

Oracle Retail Documentation on the Oracle Technology Network

Oracle Retail product documentation is available on the following Web site:

<http://www.oracle.com/technetwork/documentation/oracle-retail-100266.html>

(Data Model documents are not available through Oracle Technology Network. 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.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

Overview

As each EFTLink Core is based on an abstract interface known as the EPSCore_1_3, it means that Oracle partners are permitted to write their own Cores to help meet the requirements of an Xstore EFTlink implementation. This guide provides information relating to the release versions for compatibility of Xstore and EFTLink for payment terminal functionality of each Oracle Partner Core.

Where the partner Core does not support a function that is supported by Xstore and EFTLink, it will be left blank to show that there is a gap in that solution. It will be up to the partner or system integrator to suppress that feature in Xstore to ensure that the function is not executed to the point of failure.

Note: Although Oracle are validating the Cores, Oracle is not responsible for support, this is the responsibility of the Core authors. The system integrator should always approach the 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 Core 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 Cores are validated:

- [FreedomPay](#)



FreedomPay

Operating Areas: US, EMEA

Supported Terminals: Equinox Luxe 8500i, Equinox Luxe 6000m, Ingenico ipp350, Ingenico isc250, Ingenico isc480

The following table provides information relating to the release versions for compatibility of Xstore and FreedomPay for payment terminal functionality.

Table 2-1 FreedomPay

Payment Terminal Function	Subtype	Xstore Release Version	FreedomPay Release Version
Sign On		15.0	1.00
Sign Off		15.0	1.00
Card Payment	Payment by Credit	15.0	1.00
	Payment by Debit	15.0	1.00
Cashback	Cashback prompted on PED, return amount to POS	15.0	-
Check Payment / Check Verification	Payment by Check	17.0	-
Refund	Refund by Credit	15.0	1.00
	Refund by Debit	15.0	1.00
	Cardless Refund using Token	16.0	1.00
Reversal	Reversal of last transaction	15.0	1.00
	Reversal of last transaction within batch	15.0	1.00
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	17.0	-
Token Support	Receive and record token for verified return	16.0	1.00
Combined EFT/Tax Receipts	Defer customer copy to <CardServiceResponse>	16.0	1.00
Customer Display	Sale State Notification	15.0	1.00
Card Swipe - non PCI Cards	Get card data	15.0	-

Table 2–1 (Cont.) FreedomPay

Payment Terminal Function	Subtype	Xstore Release Version	FreedoPay Release Version
EFTLink Server Compliant	Ensure the Core can resolve configuration from the ServerN folder	NA	1.00
IP PED	NA	NA	1.00
Customer Not Present	CVV2 / AVS / partial entry on PED	17.0	1.00
Electronic Signature Capture	3 byte ASCII (3BA)	15.0	1.00
Stored Value Cards (Gift Cards)	Redeem	16.0	1.00
	Redeem Reversal	16.0	1.00
	Cashback /Unload	16.0	-
	Load/Reload	16.0	1.00
	Refund	16.0	1.00
	Cash out (Close)	16.0.1	1.00
	Balance Inquiry	16.0	1.00
	Activate	16.0	1.00
	Activate and Load	16.0	1.00
	Activate Reversal	16.0	1.00
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	15.0	-
Custom Forms	Terminal Display	*	-
	Customer Question	*	-
	Phone Number Capture	*	-
	Email Address Capture	*	-
	Signature Capture	*	-
	Customer Buttons	*	-
	Display QR Code	*	-
	Cancel QR Code	*	-

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