

This document highlights the major changes for Release 18.1 of Oracle Retail XBRⁱ Cloud Services.

Overview

Oracle Retail XBRⁱ Release 18.1 offers Business Intelligence (BI) reporting and analysis modules in the areas of Loss Prevention (LP) and Sales and Productivity (SP).

The XBRⁱ LP module is the most widely used loss prevention and point of service (POS) data analysis tool. The LP module is an intuitive, intelligent and global analytical reporting solution that is designed to quickly identify suspicious trends, transactions, and other data anomalies. The LP module allows easy user access, dynamic functionality, and forensic analysis to make more-informed decisions with timely, data-driven answers to business questions and to protect the bottom line.

The XBRⁱ SP module offers robust and highly configurable reporting across all levels of the retail organization hierarchy (Salesperson, Store, District, Region, and so on), merchandise hierarchy (item, class, dept., and so on), and/or by geographic attributes. Through a comprehensive set of grid and graph reports, documents and interactive dashboards, users can compare same store sales to past performance and custom goals, measure sales members' productivity, and evaluate the impact of merchandise characteristics on productivity.

Customers can purchase the Loss Prevention module separately, or have both modules bundled in the application.

Oracle Cloud Services and Business Agility

Oracle Retail XBRⁱ Cloud Services are hosted in the Oracle Cloud with the security features inherent to Oracle and a robust data center classification, providing significant uptime. The Oracle Cloud team is responsible for installing, monitoring, patching, and upgrading retail software. Included in the service are continuous technical support, access to software feature enhancements, hardware upgrades, and disaster recovery. The Cloud Service model helps to free customer IT resources from the need to perform these tasks, giving retailers greater business agility to respond to changing technologies and to perform more value-added tasks focused on business processes and innovation. Oracle Retail Software Cloud Service is acquired exclusively through a subscription service (SaaS) model. This shifts funding from a capital investment in software to an operational expense. Subscription-based pricing for retail applications offers flexibility and cost effectiveness.

Supported Client Browsers and Mobile Devices

XBRⁱ Release 18.1 is supported on the following browsers and mobile devices:

Browsers	Comments
Internet Explorer 11	Compatibility view is not supported
Safari (iPad)	Basic analyst functionality supported on iPad browser
Firefox	The latest version
Google Chrome	The latest version

Mobile Devices (Oracle XBRi)	Comments
Apple iPad	iOS11, iOS12

Functional Enhancements

The following are functional enhancements for XBRⁱ Release 18.1.

Receipt Viewer

A new receipt viewer is available for Xstore integrations that lets you view and print a copy of a receipt for a transaction. The Receipt Viewer icon is available on the Reports toolbar when a report has been run that contains the following transactions data: Org ID, Trans ID, Register Number, and Trans Date, and when the user has been granted access to the new Receipt Viewer feature in User Manager. When you select a transaction in a report and click the Receipt Viewer icon, a prompt is displayed for logging in to Xstore Admin. After logging in, the receipt for the transaction is displayed in the Xstore Admin Receipt Viewer. You have the options to print or save the receipt. The customer must have XBRi integrated with Xstore, and users must be able to log in to Xstore to use this functionality.

Reprinted Receipts

Six new and modified attributes and five reports have been added to enable customers to determine whether a receipt was reprinted for a transaction. The customer must have XBRi integrated with Xstore to use this functionality. The following new and modified attributes have been added:

Reprint Orig Register - This is a new attribute created to display the register used in the original transaction in which a receipt was reprinted.

Reprint Orig Store - This is a new attribute created to display the store of the original transaction in which a receipt was reprinted.

Reprint Orig Trans - This is a new attribute created to display the original transaction in which a receipt was reprinted.

Reprint Orig Trans Date - This is a new attribute created to display date of the original transaction in which a receipt was reprinted.

Reprint Receipt Flag - This is a flag (Yes/No) that indicates whether a transaction has a reprinted receipt.

Return Orig Reprint Receipt Flag - This is a flag (Yes/No) that indicates whether the receipt for the original transaction on a return transaction was reprinted

These attributes are used in the five reprinted receipts and transactions reports described in the [New Reports](#) section in the Refunds and Exchanges, Transaction Analysis, and Void – Post Void reporting categories.

New Data Science Tables in Data Editor

The following tables have been added to the Data Editor to provide additional Data Science model configuration.

Science Batch-Training Dates Controls – Provides access to updating the batch date range and the number of days in which the science Model training is done. It is only necessary to configure this once. The application will automatically add the next batches through the scheduler.

Science Model Settings – Provides access to updating the Science Model Setting that controls the executions of the models and define the model algorithm used. This is only to be used by the Oracle Science team, when needed.

Science Models – Provides access to updating the model views for the WID and Hints for the Science module.

Science Risk Type Categories – Provides access to update Risk Types Categories to allow the user to group the Risk Targets by category, for example, refunds, voids, and discounts.

Science Risk Type Definitions – Provides access to update Risk Types and Hints to allow the user to update the descriptions. The core data will provide predefined descriptions for all known risks.

New Video Configuration in Data Editor

A new table, Video Vendor Configuration, has been added to the Data Editor. This table corresponds to the PRO_SP_VIDEO database table. Administrator users can use this table to configure the connectivity for video vendors currently being used and to add and delete video vendors.

Administrator users can also now set system variables for video vendors in the Data Editor – System Variable Settings table and configure cameras and registers in the Data Editor – Register Master table.

Event Management

A new Event Management option on the Tools menu allows Administrator users to manage event subscriptions for web services. The Event Management Services screen shows all of the current events available in the system and the groups to which they belong. When you select an event in a list, the users subscribed to the event are displayed in a Subscription list. Security is checked every time an event is selected, and the subscriptions in the Subscriptions list are updated. Users with permission to maintain the event can add, edit, and delete subscriptions. This option is only applicable to the new ETL process. See: [New ETL Process](#), under Technical Enhancements.

ETL Control

A new ETL Control option on the Tools menu lets Administrator users control ETL services from within the application. You have the options to stop or start all services at once, and to stop, start, pause or resume one service node at a time. The actions available for a node depend on the state of the service. For example, if the node status is Stopped, The only action available will be Start. Each time you initiate a control option, you are

prompted with a message that asks if you want to continue. If an error occurs while data is being loaded, an error message is displayed. This option is only applicable to the new ETL process. See: [New ETL Process](#), under Technical Enhancements.

ODI Configuration

A new ODI Configuration option on the Tools menu lets Administrator users associate extended configuration data with a particular profile. Launching this option displays an ODI Configuration/Repository Updates page that lists the import configurations for each profile code. Using Download and Replace commands, you can download a configuration from the server, and replace it with a modified configuration. The Clear command is available for clearing a configuration on the server. Repository configurations are listed by Profile Code and Category. You can display all categories or a single category. Choosing Download displays a prompt that lets you save the config file or open it with an XML editing tool.

The application comes with the profile code and categories are listed below. Additional profile codes can be created in the new ETL engine.

Profile Codes

XbrLoader POSLOG

Categories

Child Schema

Parent Schema

TLOGA_1 XSD

TLOGA_1 XSL

TLOGA_2 XSD

TLOGA_2 XSL

TLOGB_1 XSD

TLOGB_1 XSL

XPATH Base

XPATH Customer

Custom Language Translation

A new Custom Language Translation option is available on the Project Defaults menu. It is provided for customizing field labels used in attributes, metrics, filters, and prompts. Customer Administrators can select the custom language, object type, and object to be customized, and enter a more meaningful custom label for the object in the provided field. The modified field labels are only applied at the metadata level and can only be seen if the Language metadata option in their user preferences is also set to the preferred custom language, for example, English Custom instead of English. Once a label is updated with a new custom entry, then they should see the new label in reports, metrics, filters or prompts.

Notes: Custom languages supported are: German, French, Italian, Portuguese, Spanish and English. Customers must make a service request to Oracle for the initial creation of custom languages.

There are some areas in which a custom translation cannot be applied, such as dashboards and attribute forms.

New Reports

Refunds and Exchanges

Cash Refunds from Reprinted Receipts – This report provides information on cash refund transactions that were reprinted and are high risk for potential fraud.

Refunds from Reprinted Receipts - This report provides information on refund transactions that were reprinted and are high risk for potential fraud.

Transaction Analysis

Reprinted Receipts Transactions – This report provides information on transactions that were reprinted or the reprinting transaction, at the header level.

Voids – Post Voids

Cash Post Voids from Reprinted Receipts – This report provides information on cash post void transactions that were reprinted and are high risk for potential fraud.

Post Voids from Reprinted Receipts - This report provides information on post void transactions that were reprinted and are high risk for potential fraud.

SQL Research Reports

ETL Queue Detail Report – This report provides details on the records passing through the ETL queue, with prompts on Date, Status, and Profile

ETL Queue Status Report – This report summarizes the number of records passing through the ETL queue, including a count of entries for each category such as Success, Failed, and so on.

Master File Distribution

Custom Store Level 1 Master File Distribution Report – Custom Store Level 1 report used in Dynamic Address lists for master file distribution.

Custom Store Level 2 Master File Distribution Report - Custom Store Level 2 report used in Dynamic Address lists for master file distribution.

Security Patches

Any identified security risk areas have been addressed through these updates.

Technical Enhancements

New ETL Process

A new XBRi ETL import process is being introduced in this release that is designed to give customers more flexibility over how data is imported into the application and in managing and monitoring data once it is imported. When you log in to a Web service you receive a token that is used when doing configuration in the Web service import components. The previous ETL import process is still being supported.

Import Process

The new import process uses a collection of new contracts designed to process data quickly and efficiently. It allows data to be brought into the XBR system through REST Web services. It also currently supports the use of internal and external SFTP servers. The new import process allows for some data to be imported without going through staging tables, and it allows data to be imported incrementally, so that it is not necessary to wait for an entire set of imports to download before data becomes available. The process is configurable by Customer Administrators. The following components comprise the New ETL Import Process:

ETL, Import Profiles REST Service – This service is for maintaining import profiles. Administrator users can configure profile properties.

ETL, Import Roles REST Service – This service is for associating roles with import profiles. This allows security to be maintained and tied to specific profiles.

ETL, Import Staging Module REST Service – This service allows staging-based import modules to be controlled. Administrator users can configure properties, such as how often pending records are moved to staging areas.

ETL, Import REST Service – This service allows the import to be placed on the import engine. The import engine accepts import requests, which submit the data into a queue and return a reference that can be used to track the data in other REST services.

ETL, Xstore POSLOG Import– This is a plugin module for use with Xstore POSLOG formats. Administrator users can configure this plugin to accept import data from Xstore

ETL, Xstore POSLOG External SFTP Import – The POSLOG import module can be configured to provide SFTP settings for customers who need to process data via SFTP. This module will work with both old and new style Xstore POSLOG formats. **Note:** the external SFTP must be whitelisted by Oracle Cloud services.

ETL, XBRI Queue List – This service allows administrator users to search the data on the current ETL queue. The data returned can be filtered and sorted.

Data Import from XBRI SFTP Server – This import option is provided for files that can bypass the ETL process.

Data Maintenance

Event Management – A new web service allows subscriptions to be used to monitor events. The subscription is made on the ETL group for all events, and only users with the security clearance for an event will receive notification. The new Event Management option has been added to the application to manage these subscriptions. See [Event Management](#), under Functional Enhancements.

ETL Control – There is a new option to control ETL services from within the application. This includes stopping and starting all services and stopping, starting, pausing, and resuming individual services. See [ETL Control](#) under Functional Enhancements.

ODI Configuration – Administrator users can associate extended configuration data with a particular profile from within the application. This new option is available for use with both the new ETL process, and the previous import process. See [ODI Configuration](#) under Functional Enhancements.

ETL Queue Reports – Two new reports are available for monitoring the ETL Queue, ETL Queue Detail Report, and ETL Queue Status Report. See the [New Reports](#) section for descriptions.

ETL, XBRI Import Queue Rest Service – This service allows Administrator users to view all past and current queue entries with some limited search capabilities.

ETL, Stored Procedure for ETL Run and Log- This new stored procedure lets Administrator users extend the configuration of the pro_transdate_purge table for the ETL_RUN and ETL_LOG tables, so that old data can be purged.

New Reports

Two new reports let you see the ETL Queue status and details from within the application. These reports are described in the [New Reports](#) section.

Integration Enhancements

Integration with XAdmin and Xstore

Reprinted Receipts Data Added

The following new and modified attributes are derived from Xstore data, and have been added to enable customers to view data from Xstore on transactions with reprinted receipts:

Reprint Orig Register

Reprint Orig Store

Reprint Orig Trans

Reprint Orig Trans Date

Reprint Receipt Flag

Return Orig Receipt Flag

See [Reprinted Receipts](#) for a functional description of this enhancement.

These attributes are used in the five reports described in the [New Reports](#) section.

Receipt Viewer

Customers can now view the receipt for a transaction in an XBRi report in the Xstore Admin Receipt Viewer. See [Receipt Viewer](#) for a functional description of this enhancement.

Known Issues/Defects

The noteworthy issues and defects described below exist in this release.

Known Issue/Defect	Defect Number (Bug DB)
<p>If you use the Receipt Viewer to look up a receipt for a transaction in a report, you are prompted for XAdmin login credentials, If you enter incorrect login credentials, you will see an error message: "HTTP Error 401 Problem accessing/xadmin/receiptViewer Reason: unauthorized</p> <ul style="list-style-type: none"> If you are using the Firefox browser, every subsequent time you use the Receipt Viewer to look up a receipt, you will see the same error message, without first being prompted to enter XAdmin login credentials. If you are using the Chrome browser, every subsequent time you use the Receipt Viewer to look up a receipt, you will be prompted to enter XAdmin login credentials. 	30538302
<p>When running reports in which the Cashier Home Store and Transaction Store were different, the Cashier Home Store was not displayed.</p> <p>Workaround: The data should be mapped so that there is a link to the Cashier Master based on the Cashier Num. This will ensure that all the data about the cashier is displayed in reports, even if the Cashier's Home Store and Transaction Store are different.</p>	28807637

Resolved Issues/Defects

The noteworthy issues and defects described below have been fixed in this release.

Resolved Issue/Defect	Defect Number (Bug DB)
Full description attributes were not available in the Report Wizard for users with Full Desc privileges. This problem has been corrected	29253530
Some of the fields are shifting into the wrong column in the POS Header Admin report. This problem has been corrected.	29180645
The Data Editor link on the Home page is not redirected to the new Data Editor. This was addressed by removing the Data Editor link from the Home page.	29909510

Related Documentation

For more information, see the following documents in the Oracle Retail XBRⁱ Cloud Services 18.0 and 18.1 documentation sets:

- Data Recall/Erase API Guide
- Import Services Guide
- Implementation Guide
- Administration Guide
- Web User Guide
- Administrator User Guide

These documents can be accessed at the [Oracle Retail XBR[®] Documentation Library on Oracle Technical Network \(OTN\)](#)

Supplemental Documentation on My Oracle Support

The following documents are available through My Oracle Support.

Core Field Mapping Guide (My Oracle Support Doc ID: [2079594.1](#))

Data Science Operational Guide (My Oracle Support Doc ID: [2079594.1](#))

Data Science Configuration Guide (My Oracle Support Doc ID: [2079594.1](#))

Security Guide (My Oracle Support Doc ID: [2079594.1](#))

Supplemental Training

The following documents are available through My Oracle Support. Access My Oracle Support at the following URL:

<https://support.oracle.com>

Transfer of Information (TOI) Material (Doc ID 732026.1)

For applicable products, online training is available to Oracle supported customers. These online courses provide release-specific product knowledge that enables your functional and technical teams to plan, implement and/or upgrade and support Oracle Retail applications effectively and efficiently.

Oracle Retail Learning Subscriptions at Oracle University

The Oracle Retail Learning Subscription is a digital training solution for anyone on your team seeking training on Oracle Retail Products. With the learning subscription you get the key elements of an effective learning program and the conveniences of a digital format, making this training unmatched in the industry.

You get modern learning at its best, such as:

- 12 months of 24/7 access to a comprehensive set of high quality videos delivered by Oracle experts.
- Detailed coverage and step-by-step demonstrations.
- Periodic updates for new features and product enhancements.
- Flexibility to search, access and learn about specific topics of interest.

The learning subscription enables current users to continually refresh and upgrade their product skills. It also enables new employees with a self-paced learning guide to help them quickly become proficient on Oracle Retail Products.

For training opportunities, see the following web site:

<http://www.oracle.com/education>

Documentation Accessibility

Our goal is to make Oracle products, services, and supporting documentation accessible to all users, including users that are disabled. To that end, our documentation includes features that make information available to users of assistive technology. This documentation is available in HTML format, and contains markup to facilitate access by the disabled community. Accessibility standards will continue to evolve over time, and

Oracle is actively engaged with other market-leading technology vendors to address technical obstacles so that our documentation can be accessible to all of our customers. 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>.

Accessibility of Code Examples in Documentation

Screen readers may not always correctly read the code examples in this document. The conventions for writing code require that closing braces should appear on an otherwise empty line; however, some screen readers may not always read a line of text that consists solely of a bracket or brace.

Accessibility of Links to External Web Sites in Documentation

This documentation may contain links to Web sites of other companies or organizations that Oracle does not own or control. Oracle neither evaluates nor makes any representations regarding the accessibility of these Web sites.

Access to Oracle Support

Oracle customers 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.

2019, Oracle and/or its affiliates. All rights reserved.

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 software or related documentation is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, 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 and documentation may provide access to or information on 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. 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.

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 on 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. 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.

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.