

Oracle® Retail Advanced Inventory Planning

Release Notes

Release 14.0.2.1

E81160-02

May 2018

This document highlights a fix available on My Oracle Support to address Data Privacy.

Note: This application's base code is not changing for this numbered version unless the fix referenced below is applied.

This hotfix addresses the following defect:

Bug 27357845 - Security Enhancements for Personal Data

The fix can be located using the following Patch ID number on My Oracle Support:

- 21862657

Note: The code, listed at the My Oracle Support number above, is associated in My Oracle Support with a later version of this application; however, you should use that code download location for the line of code referenced in these Release Notes. In other words, the referenced fix above is applicable to multiple versions of this application, including this one.

Data Privacy Overview

Enable customers to accept and respond to end-user requests for data access, correction, and deletion for individual end-user data records they store in the Oracle Retail Advanced Inventory Planning application.

The retailer is responsible for fulfilling this requirement. However, to do so, the retailer requires the capability to request this data from our application as needed.

As a Data Privacy enhancement, Oracle has created a Platform Data Privacy command line tool to provide retailers with services for requesting access to personal information for review and forget/update the personal information if requested.

Some of the examples of the personal information can be:

- First Name
- Last Name
- Address
- Email address
- Fax Number
- Contact numbers

Enhancement

The following features are handled in the Platform Data Privacy command line tool:

- End User Access/Right to Access (RTA): Enables retailers to accept and respond to end-user requests for data access, correction, and deletion for individual end-user data records they store in the Oracle service.
- Right to be Forgotten (RTF): Based on the end-user's right to request to forget and/or update their personal information, this feature enables the retailer to delete/update

(mask) end-user's personal data during the services period. Some of the data critical for the business or part of a legal requirement might not be deleted.

- **Validate Forgotten:** Based on the end-user's right to request to forget and/or update their personal information, this feature enables the retailer to validate the end-user's requests.
- **Data Portability:** The end-users have the right to receive their own personal data stored in retail applications. The feature will be handled as part of the Data Privacy Command line tool's Right to Access functionality.

Note: With regard to Purging functionality, output files created by the Platform Data Privacy command line tool may be purged.

Note: With regard to Logging functionality, server logs created by the Platform Data Privacy command line tool may be purged.

Installation

The services that are part of the Platform Data Privacy command line tool are executable through a command line using the Platform Data Privacy API.

Setting up the Java Development Kit (JDK)

Java 1.8 is a prerequisite to install and test the command line tool. This chapter contains instructions on how to properly set up the right version of the Java Development Kit (JDK).

Download and Install Java 8

For Windows:

1. Download the latest 64-bit version of the Java SE Development Kit 8.
2. Install in a location on your local machine. Ensure that the installation folder name does not contain any whitespaces (example: Program Files).

Define Environment Variables for JDK

To effectively use the JDK on your workstation you will need to define environment variables on your system.

Define the JAVA_HOME Variable

Define a new environment system variable named JAVA_HOME with a value referring to the path where your JDK is installed.

For Example:

JAVA_HOME= <Absolute Path where Java is installed>

Modify the PATH Variable

Modify your system's existing PATH variable to include the executable program location on your JDK installation. These executables are located under

%JAVA_HOME%\bin.

PATH=%JAVA_HOME%\bin;%PATH%

Testing Your JDK Installation

For Windows:

1. Start a new command line window by selecting Start → Run → Open → type cmd.exe.
2. Go to the root directory by typing: cd c:\ <enter>
3. Run the Java compiler and query its version by typing: javac -version

The command should return with the Java version information. Make sure it matches with the JDK version you just installed.

Example:

```
D:\gdpr>java -version
java version "1.8.0_66"
Java(TM) SE Runtime Environment (build 1.8.0_66-b18)
Java HotSpot(TM) 64-Bit Server VM (build 25.66-b18, mixed mode)

D:\gdpr>javac -version
javac 1.8.0_66
```

For UNIX:

1. Start a new UNIX session (For example: A Putty Session).
2. Go-To HOME directory.
3. export JAVA_HOME=<Absolute path where JAVA is installed>
export PATH=\$JAVA_HOME/bin:\$PATH

The command should return with the Java version information.

Make sure it matches with the JDK version you just installed. Example:

```
/vol.rtk/java/oracle_linux/jdk1.8.0_112.64bit>java -version
java version "1.8.0_112"
Java(TM) SE Runtime Environment (build 1.8.0_112-b15)
Java HotSpot(TM) 64-Bit Server VM (build 25.112-b15, mixed mode)
/vol.rtk/java/oracle_linux/jdk1.8.0_112.64bit>
```

Configuring the Config Files

For the Platform Data Privacy command line tool to work, there are several configuration files that need to be configured.

- The DATAPRIV-Global.xml contains database connection details as well as details of the customer-id-format. This needs to be modified to enter database information.
- The ContextOverride.properties contains details of the connection string to be used in case of using Oracle Wallet. This needs to be modified to enter the correct database information.
- The DATAPRIV-Get.xml contains the SQL query or function to perform the Right to Access and Validate Forgotten. Changes are already done, no changes necessary by user.
- The DATAPRIV-Forget.xml contains the SQL query or function to perform the Right to Forget. Changes are already done, so there are no changes needed by the user.

1. Create a folder called DataPrivacy.
2. Unzip AIP_Data_Priv.zip
3. In the ContextOverride.properties, update the datasource string to the environment where this needs to be tested.

For example for v16.0.x: -

```
datasource-url=jdbc:oracle:thin:@hostname:port/service name
```

Common instructions for both RTA and RTF for UNIX Environment

Export the environment variable with the following:

1. Export DATAPRIV_DIR=<Full Path of 'DataPrivacy' directory created in above step>
2. Run the following command on <DataPrivacy_directory> `chmod 777 -R <DataPrivacy_directory>`

Common Instructions for both RTA and RTF for UNIX Environment:

1. Export the following environment variable:
`export DATAPRIV_DIR=<Full Path of 'DataPrivacy' directory created in above step>`
2. Run the following command on <DataPrivacy_directory>
`chmod 777 -R <DataPrivacy_directory>`

Common Instruction for Windows Environment:

Set the following environment variable:

set DATAPRIV_DIR=<Full Path of 'DataPrivacy' directory created in above step>

Creating and Configuring Oracle Wallet

Oracle Wallet is used to store database credentials instead of encoding these details in the configuration file (ContextOverride.properties)

1. Create an empty wallet file in a DataPrivacy/Wallet directory by running the following command in a CMD prompt in Windows and in a Unix Session in a Unix Box in the DataPrivacy directory.

```
java -classpath %DATAPRIV_DIR%/DATAPRIV_JAR/RetailAppsDataPrivServices-7.0.1-RetailAppsDataPrivTool.jar oracle.security.pki.OracleSecretStoreTextUI -wrl %DATAPRIV_DIR%/Wallet -create
```

OR

```
java -classpath $DATAPRIV_DIR/DATAPRIV_JAR/RetailAppsDataPrivServices-7.0.1-RetailAppsDataPrivTool.jar oracle.security.pki.OracleSecretStoreTextUI -wrl $DATAPRIV_DIR/Wallet -create
```

You will be prompted for a password. This will be the password to manage the contents of the wallet files.

Note: Remember this password because it will be needed in following commands against the wallet files.

2. Add the database credentials into the wallet by running the command listed below from the cmd prompt or UNIX session in the DataPrivacy folder. This will prompt you to enter the password you created in step 1.

```
java -classpath %DATAPRIV_DIR%/DATAPRIV_JAR/RetailAppsDataPrivServices-7.0.1-RetailAppsDataPrivTool.jar oracle.security.pki.OracleSecretStoreTextUI -wrl
```

```
%DATAPRIV_DIR%/Wallet -createCredential <hostname:port/service name>
<username> <password>
```

OR

```
java -classpath $DATAPRIV_DIR/DATAPRIV_JAR/RetailAppsDataPrivServices-7.0.1-
RetailAppsDataPrivTool.jar oracle.security.pki.OracleSecretStoreTextUI -wrl
$DATAPRIV_DIR/Wallet -createCredential <hostname:port/service name> <username>
<password>
```

<hostname:port/service name> <username> <password> is the DB connect string.
This should be the same as the one defined in the ContextOverride.properties

<username> is the DB user to connect to the database

<password> is the password to connect to the database

3. Verify the database credentials in the wallet by running the following command in the CMD prompt or in a Unix Session

```
java -classpath %DATAPRIV_DIR%/DATAPRIV_JAR/RetailAppsDataPrivServices-7.0.1-
RetailAppsDataPrivTool.jar oracle.security.pki.OracleSecretStoreTextUI -wrl
%DATAPRIV_DIR%/Wallet -listCredential
```

OR

```
java -classpath $DATAPRIV_DIR/DATAPRIV_JAR/RetailAppsDataPrivServices-7.0.1-
RetailAppsDataPrivTool.jar oracle.security.pki.OracleSecretStoreTextUI -wrl
$DATAPRIV_DIR/Wallet -listCredential
```

```
D:\gdpr>java -classpath ./RetailAppsDataPrivServices-7.0.1-RetailAppsDataPrivTool.jar oracle.security.pki.OracleSecretStoreTextUI -wrl ./tmp_wallet -listCredential
Oracle Secret Store Tool : Version 12.2.1.2.0
Copyright (c) 2004, 2016, Oracle and/or its affiliates. All rights reserved.

Enter wallet password:
List credential (index: connect_string username)
1: msp00bpz.us.oracle.com:1521/dolsp20app rms01app
```

Make sure the credential information shown by the command is as expected.

Using the Platform Data Privacy Command Line Tool

The tool can be tested in the command line mode using the scripts. The user with admin privileges should run these scripts because RTF script will delete/update (mask) the data from the tables which are not recoverable.

1. RTA is used to get the personal data from the AIP database in an html and xml output format. To run RTA, follow the instructions below:

For UNIX Environment:

- Run RTA.sh script with below mandatory parameters.
- Parameters:
 - First and Last Name of users using the separator ' ' OR
 - First and Last Name of Admin using separator ' ' OR
 - User Name of Audit OR
 - Contact Email OR
 - Contact Email and Contact Phone of supplier using separator ' '
- Invoked By - The user who is running this script.
- Methods - getUserInformation, getAdminInformation, getEnterpriseInformation, getEntAuditInformation, getSupplierInformation and getSupplierLocationInformation

Example: ./RTA.sh <method_type> <First_Name>:<Last_Name> <Invoked_By>
[Maintain sequence of input parameters is mandatory]

For Windows Environment:

Example:

RTA.bat <method_type> <First_Name>:<Last_Name> <Invoked_By>
[Maintain sequence of input parameters is mandatory]

Note: RTA can fetch a maximum of 5 records. If there are more records, the line below will be displayed in the XML output file.

More Rows found for the query but was limited to 5.

2. RTF is used to delete/update (mask) the personal data from the AIP database. To run RTF, use the following instructions:

For a UNIX Environment

Run RTF.sh script with below mandatory parameters.

Parameters:

- ID - User Id OR WT User Id OR WT Admin Id OR Audit Id OR Enterprise Id OR Supplier Id
- Invoked By - The user who is running this script.
- Methods - forgetEntuser, forgetWTuser, forgetSupplier, forgetWTAdmin, forgetEntAudit, forgetWtEnterPrises, forgetSupplierlocation & forgetSupplySourceLocation

For example: RTF.sh <method_type> <Id> <Invoked_By> [Maintain sequence of input parameters is mandatory]\

For Windows Environment:

Example: RTF.bat <method_type> <Id> <Invoked_By> [Maintain sequence of input parameters is mandatory]

3. Validate is used to validate forgotten personal data. To run Validate, follow the instructions below.

For UNIX Environments

Run Validate sh script with the following mandatory parameters.

- ID - User Id OR WT User Id OR WT Admin Id OR Audit Id OR Enterprise Id OR Supplier Id
- Invoked By - The user who is running this script.
- Methods -
 - validateUserInformation
 - validateAdminInformation
 - validateEntAuditInformation
 - validateWtEnterpriseInformation
 - validateSupplierInformation
 - validateSupplierLocationInformation

For example:

```
Validate.sh <method_type> <Id> <Invoked_By>  
[Maintain sequence of input parameters is mandatory]
```

For Windows Environment:

For example:

```
Validate.bat <method_type> <Id> <Invoked_By>  
[Maintain sequence of input parameters is mandatory]
```

DB Tables impacted due to RTA/RTF Operation in AIP

- ENT_AUDIT
- ENT_LOCATIONS
- ENT_USERS
- SUPPLIER
- SUPPLIER_LOCATION
- SUPPLY_SOURCE_LOCATION
- WT_ADMINS
- WT_ENTERPRISES
- WT_USERS

Output Files

The Output files are located inside below locations:

Windows:

```
%DATAPRIV_DIR%/Get_Output  
%DATAPRIV_DIR%/Validate_Output
```

UNIX:

```
$(DATAPRIV_DIR)/Get_Output  
$(DATAPRIV_DIR)/Validate_Output
```

Examples of HTML files:

RTA FILE:

Supplier Information

TABLE_NAME	SUPPLIER_ID	SUPPLIER_CODE	SUPPLIER_NAME	CONTACT_NAME	CONTACT_PHONE	CONTACT_EMAIL	CONTACT_FAX
SUPPLIER	81	V773938548	000773938548 JOE'S JEANS	Joe Smith	234567890	joe.smith@abc.com	345678120

Validate Supplier Information

TABLE_NAME	SUPPLIER_ID	SUPPLIER_CODE	SUPPLIER_NAME	CONTACT_NAME	CONTACT_PHONE	CONTACT_EMAIL	CONTACT_FAX
SUPPLIER	81	V773938548	000773938548 JOE'S JEANS				

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Value-Added Reseller (VAR) Language

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