### **Oracle Financial Services Data Foundation Application Pack**

**Release Notes** 

Release 8.0.9.4.0

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**ORACLE** Financial Services



#### **OFS Data Foundation Application Pack Release Notes**

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## **Document Control**

Version Number	Revision Date	Change Log
1.0	11-December-2020	Created and published the Release Notes document for the OFSDF Application Pack v8.0.9.4.0.

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## 1 Preface

This section provides supporting information for the Oracle Financial Services Data Foundation Application Pack Release Notes v8.0.9.4.0.

**Topics:** 

- <u>Audience</u>
- How this Guide is Organized
- <u>Access to the Oracle Support</u>
- Related Documents

### 1.1 Audience

This document is intended for Administrators, Business Users, Strategists, and Data Analysts, who handle installing and maintaining the application pack components and have knowledge of the following:

- OFSAA Application Components
- OFSAA Architecture
- UNIX Commands
- Database Concepts
- OFSDF Data Model

## **1.2** How this Guide is Organized

The OFSDF Application Pack Release Notes includes the following sections:

- <u>Introduction</u>: This section provides information about the OFSDF Application Pack and its components.
- <u>OFSDF Application Pack Release Notes v8.0.9.4.0</u>: This section provides information about the OFSDF Application Pack Release v8.0.9.4.0 such as new features in this release, prerequisites for the release, applying this release, the list of bugs fixed and enhancements done in this release, and the known issues or limitations if any.
- <u>Hardware and Software Tech Stack Details</u>: This section provides a reference to the OFSAA Technology Stack Matrices document required for this release.
- <u>Licensing Information</u>: This section provides a reference to the Licensing Information User Manual required for this release.

## **1.3** Access to the Oracle Support

Oracle customers have access to electronic support through My Oracle Support. For more information, visit <u>http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info</u>

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

### **1.4 Related Documents**

Oracle strives to keep this and all other related documents updated regularly; visit the <u>OHC</u> <u>Documentation Library</u> to download the latest version available there. The list of related documents is as follows:

- The following are the OFSDF Application Pack Release 8.0.9.x.x documents:
  - Oracle Financial Services Data Foundation Application Pack Installation and Configuration <u>Guide Release 8.0.9.4.0</u>
  - Oracle Financial Services Data Foundation Application Pack Release Notes 8.0.9.3.2
  - Oracle Financial Services Data Foundation Application Pack User Guide Release 8.0.9.0.0
- The following are the OFS AAAI Application Pack Release 8.0.9.x.x documents:
  - Oracle Financial Services Advanced Analytical Applications Infrastructure Installation and Configuration Guide Release 8.0.9.0.0
  - <u>Oracle Financial Services Advanced Analytical Applications Infrastructure Installation and</u> <u>Configuration Guide Release 8.0.9.3.0</u>
- Oracle Financial Services Analytical Applications Technology Matrix Release 8.0.9.0.0

# 2 Introduction

OFSAA is a suite of applications covering risk, performance, financial crime, compliance, customer insight and regulatory reporting functions. These applications are built on a common technology infrastructure, which works off a singular data model that has unified structures for non-redundant acquisition, hosting and processing of data, and renders rich information output that can be analyzed across a conformed set of perspectives. Sophisticated processing engines underlying the suite facilitate modular deployment and are controlled by comprehensive, user-configurable metadata.

The OFSAA applications are in use at a number of financial institutions across the globe.

Oracle Financial Services Analytical Applications delivers a comprehensive, integrated suite of financial services analytical applications for both banking and insurance domains.

Topics:

- About the Oracle Financial Services Data Foundation Application Pack
- <u>Components of the OFSDF Application Pack</u>

## 2.1 About the Oracle Financial Services Data Foundation Application Pack

The Oracle Financial Services Data Foundation (OFSDF) Application Pack is an analytical data warehouse platform for the financial services industry. OFSDF Application Pack combines an industry data model for financial services along with a set of management and infrastructure tools that allows financial services institutions to develop, deploy, and operate analytical solutions spanning key functional areas in financial services, including:

- Enterprise Risk Management
- Enterprise Performance Management
- Customer Insight
- Financial Crime and Compliance Management

OFSDF is a comprehensive data management platform that helps institutions to manage the analytical data life cycle from sourcing to reporting and Business Intelligence (BI) using a unified, consistent platform and toolset.

### 2.2 Components of the OFSDF Application Pack

The OFSDF Application Pack consists of the following components, which are described in additional detail in the following sections:

#### • Financial Services Logical Data Model (FS LDM)

This is a reference model of the Financial Services domain spanning Banking and Capital Markets. This model captures the business processes of a typical Financial Services institution in detail.

These primarily include core banking business activities such as Retail Banking, Corporate or Merchant Banking, Wealth Management, Trading, and Securities Services. This is a logical data model, which means that it cannot be readily used.

The structures modeled in the OFSDF LDM provides an abstract, graphical model of the Financial Services domain using Entity-Relationship modeling. It can be thought of as a detailed blueprint for organizing data within a Financial Services institution. It provides a reference guide for institutions to understand the salient data related to a specific business process. To use the OFSDF in practice, customers deploy the OFSDF Analytical Warehouse Model, which is derived from the LDM (blueprint).

#### • Financial Services Analytical Warehouse Data Model

This is a physical data model that supports data sourcing and reporting related to key analytical use cases in the Financial Services industry. The Warehouse Model is a physical data model, unlike the OFSDF LDM, meaning that it is readily deployable, and consists of database object definitions, and additional supporting scripts.

It is organized into two distinct sets of tables based on purpose: The Staging model, which facilitates data sourcing from the bank's internal operational systems such as Lending systems, Trading Systems, Collateral Management systems, and Master Data Management systems. The Reporting model, which facilitates the storage of outputs from analytical tools, applications, and engines in a manner that is conducive to Business Intelligence reporting. The warehouse model is typically deployed into production through a set of management tools known as the Oracle Financial Services Analytical Application Infrastructure (OFSAAI). OFSAAI is a separate product and is a prerequisite for OFSDF.

#### • Supporting Scripts

As part of the OFSDF package, additional scripts are provided for basic operations such as internal data movement between the staging and reporting tables.

## **3 OFSDF Application Pack Release Notes v8.0.9.4.0**

Oracle Financial Services Data Foundation Application Pack v8.0.9.4.0 ML Release includes all enhancements and bug fixes since the v8.0.9.3.2 release for Stage and Results on RDBMS.

Patch ID 32107412 - ORACLE FINANCIAL SERVICES DATA FOUNDATION PACK 8.0.9.4.0 ML RELEASE

NOTE	• This release patch is applicable only for the RDBMS mode of installation.
	<ul> <li>The erwin files patch ID <b>32162752</b> for OFSDF v8.0.9.4.0 is available at <u>My Oracle Support (MOS)</u>.</li> </ul>

OFS Data Foundation Application Pack is a separately licensed product.

#### Topics:

- New Features
- <u>Prerequisites</u>
- Applying this ML Release
- Bugs Fixed in This Release
- Known Issue or Limitations

### 3.1 New Features

There are no new features as a part of the OFS Data Foundation Application Pack Release v8.0.9.4.0.

For detailed information on using the existing features, see the <u>Oracle Financial Services Data</u> <u>Foundation Application Pack User Guide Release 8.0.9.0.0</u>.

For more information on the OFS AAI requirements, see the <u>OFS Advanced Analytical Applications</u> <u>Infrastructure Application Pack 8.0.9.0.0 ReadMe</u>.

### 3.2 Prerequisites

The following prerequisite software must be installed for this release:

- Oracle Financial Services Advanced Analytical Applications Infrastructure (OFSAAI) Application Pack v8.0.9.3.0 Maintenance Release patch ID **31656153** (download from <u>My Oracle Support</u> (<u>MOS</u>)) plus other prerequisite OFSAAI patches must be installed and configured on your machine. For more information, see the *Pre-installation Requirements* section in the <u>Oracle Financial Services Advanced Analytical Applications Infrastructure Installation and Configuration Guide Release 8.0.9.0.0.
  </u>
- Oracle Financial Services Data Foundation Application Pack v8.0.9.3.2 One-off Release patch ID 32168535 (download from <u>My Oracle Support (MOS)</u>). For more information, see the *Pre-installation Requirements* section in the <u>Oracle Financial Services Data Foundation Application</u> <u>Pack Release Notes 8.0.9.3.2</u>.

## 3.3 Applying this ML Release

For detailed instructions on installing this ML Release, see <u>Oracle Financial Services Data Foundation</u> <u>Application Pack Installation and Configuration Guide Release 8.0.9.4.0</u> in the <u>OHC Documentation</u> <u>Library</u>.

NOTE	• This release patch is applicable only for the RDBMS mode of installation.
	• This patch installation has taken approximately 3 hours to complete in the Oracle Test Labs.

## 3.4 Bugs Fixed in this Release

The following modifications and bug fixes are included in OFS Data Foundation Application Pack release v8.0.9.4.0.

Bug Number	Bug Description	Change Comments
32100689	MODIFY FILTERS AND ANSIJOINS - NVL FUNCTION TO BE REPLACED WITH OR CONDITION	Modified the Filters and the ANSI Joins in the T2Ts T2T_FLAS_STG_LOAN_CONTRACTS, T2T_FDB_STG_CASA, T2T_FCT_CARDS_SUMMARY. The NVL function is replaced with the OR condition. This modification improves the execution time and results in a performance gain of 60% to 80%.
32028810	T2T MAPPING MISSING FOR FCT_SECURITIZATION_TRANCHE.N _ENTITY_SKEY	Added mapping from the STG_SECURITIZATION_TRANCHE.V_LV_CODE column to the FCT_SECURITIZATION_TRANCHE.N_ENTITY_SKEY column.
32028768	MISSING MAPPING FOR FEW FCT_LOANS_SERVICED COLUMNS	<ul> <li>Modified the column mappings in the T2T_FCT_LOANS_SERVICED as follows:</li> <li>FCT_LOANS_SERVICED.N_PRINCIPAL_OUTSTANDI NG_RCY to STG_LOANS_SERVICED.N_EOP_PRIN_BAL after converting it to RCY</li> <li>FCT_LOANS_SERVICED.N_PROMINENT_MITIGANT _SKEY to STG_LOANS_SERVICED.V_PROMINENT_MITIGANT _CD (look up on the DIM_MITIGANT table)</li> <li>FCT_LOANS_SERVICED.N_STANDARD_GUAR_TYP E_SKEY to STG_LOANS_SERVICED.V_GUARANTOR_CODE (lookup on the DIM_STANDARD_PARTY_TYPE table)</li> <li>FCT_LOANS_SERVICED.N_STANDARD_IRC_SKEY to</li> </ul>

Table 1: The list of bugs fixed in this release

Bug Number	Bug Description	Change Comments
32028653	T2T MISSING FOR	<ul> <li>STG_LOANS_SERVICED.V_INTEREST_RATE_CODE (look up on the DIM_STANDARD_IRC table)</li> <li>FCT_LOANS_SERVICED.N_STD_INTEREST_RATE_S KEY to STG_LOANS_SERVICED.V_INTEREST_RATE_CODE (look up on the DIM_STANDARD_IRC table)</li> <li>FCT_LOANS_SERVICED.V_ISO_CURRENCY_CD to STG_LOANS_SERVICED.V_ISO_CCY_CODE</li> <li>Added the following column mappings in the</li> </ul>
	FCT_LOANS_SERVICED WRITE OFF MTD COLUMNS	<ul> <li>T2T_FCT_LOANS_SERVICED after converting them to RCY:</li> <li>FCT_LOANS_SERVICED.N_BNKRPT_WRITE_OFF_A MT_MTD_RCY to STG_LOANS_SERVICED.N_BANKRUPTCY_WRITE_ OFF_AMT_MTD</li> <li>FCT_LOANS_SERVICED.N_CHRGS_WRITE_OFF_AM T_MTD_RCY to STG_LOANS_SERVICED.N_CHARGES_WRITE_OFF_ AMT_MTD</li> <li>FCT_LOANS_SERVICED.N_INT_WRITE_OFF_AMT_ MTD_RCY to STG_LOANS_SERVICED.N_INT_WRITE_OFF_AMT_ MTD</li> <li>FCT_LOANS_SERVICED.N_INT_WRITE_OFF_AMT_ MTD</li> <li>FCT_LOANS_SERVICED.N_PRIN_WRITE_OFF_AMT_ MTD</li> <li>FCT_LOANS_SERVICED.N_PRIN_WRITE_OFF_AMT_ MTD</li> </ul>
32028601	MAPPING MISSING FOR FCT_CREDIT_LINE.N_STD_INTERES T_RATE_SKEY	Modified the STG_CREDIT_LINE_DETAILS.V_INT_RATE_INDEX_COD E column to the FCT_CREDIT_LINE.N_STD_INTEREST_RATE_SKEY column mapping in the T2T_FCT_CREDIT_LINE.
32028597	MAPPING MISSING FOR FCT_COMMON_ACCOUNT_SUMM ARY.F_REPOSSESSION_FLAG	Added mappings to the FCT_COMMON_ACCOUNT_SUMMARY.F_REPOSSESSI ON_FLAG column from the following stage table columns: • STG_INVESTMENTS.F_REPOSSESSED_FLAG • STG_LEASES_CONTRACTS.F_COLL_REPOSSESSED _FLAG • STG_LOAN_CONTRACTS.F_COLL_REPOSSESSED_ FLAG • STG_OD_ACCOUNTS.F_COLL_REPOSSESSED_FLA G
31900406	UPDATE DEFINITION OF V_SERVICER_CODE	Modified the V_SERVICER_CODE column definition in the tables STG_BILLS_CONTRACTS, STG_CARDS, STG_LEASES_CONTRACTS, and STG_LOAN_CONTRACTS.

Bug Number	Bug Description	Change Comments
31898722	NOT ALL FSI_EXCHANGE_RATES IS NOT GETTING LOADED AFTER LATEST FSDF PATCH IN 8092	Modified the ANSI join in the T2T_FSI_EXCHAGE_RATES to enhance the record loading process to load all the records from the VW_FSI_RATE_TRIANGULATION table to the FSI Exchange Rates table and then pick up the Reporting Currencies that are used only in the OFSAA engines. Now, the POP_EXCHANGE_RATES table inserts data for all the Reporting Currencies and T2T_FSI_EXCHANGE_RATES inserts data only for the selected Reporting Currency.
31893566	STG_GL_DATA TABLE PK DISCREPANCIES	Modified the STG_GL_DATA.V_GL_BOOK_CODE column with the default value 'MSG' to avoid T2T failure when this column is not populated by the source or populated with the NULL value.
31886270	T2T FOR LC TYPE LEADING TO INCORRECT INCLUSION OF RECORDS (RC-F, RC-G, HC-F, HC-G)	Modified the logical name of the column FCT_COMMON_ACCOUNT_SUMMARY.F_SIGHT_USAN CE to match its respective stage column logical name.
31883317	REQUEST FOR ADDING UNDERLYING GUARANTOR AND ISSUER TO STG_INSTRUMENT_CONTRACT_M ASTER	Added the columns N_UNDERLYING_ISSUER_SKEY and N_UNDERLYING_GUARANTOR_SKEY in the FCT_SEC_COMDTY_ACCT_SUMMARY table and mapped to the STG_INVESTMENTS.V_UNDERLYING_ISSUER_CODE and STG_INVESTMENTS.V_UNDERLYING_GUARANTOR_ID columns respectively by modifying the COALESCE logic in the mappings.
31869858	MISSING DEFAULT VALUE FOR FCT_REG_FINANCIAL_SPREAD_DE TL.N_REG_FIN_VARIABLE_SKEY	Modified the default value to 0 in the FCT_REG_FINANCIAL_SPREAD_DETL.N_REG_FIN_VARI ABLE_SKEY PK column in the data model.
31860723	T2T MAPPING MISSING FOR STG_LOAN_CONTRACTS.N_JOININ G_SCORE TO FCT_COMMON_ACCOUNT_SUMM ARY.N_JOINING_CREDIT_SCORE	Added mapping from the STG_LOAN_CONTRACTS.N_JOINING_SCORE column to the FCT_COMMON_ACCOUNT_SUMMARY.N_JOINING_CR EDIT_SCORE column.
31856312	LOAD DIM_ACCOUNT FROM STG_FIXED_ASSETS_DETAILS	Created a new SCD 981 for data flow from the STG_FIXED_ASSETS_DETAILS table to the DIM_ACCOUNT table.
31824229	T2T MISSING LOAD RUN ID JOIN	Modified the Left Outer Join in multiple T2Ts by including the FSI_ACCOUNT_LOAD_RUN_MAP table.
31779715	REMAINING MISSING LRI ON DIMENSIONS IN T2TS	Added the LRI Join for the following dimension tables: DIM_CLEARED_TXN_BANK_ROLE DIM_MITIGANT_RECEIVABLES_TYPE DIM_ISSUE_PURPOSE DIM_STANDARD_PRODUCT_TYPE DIM_REM_TERM_BUCKET DIM_INSTRUMENT_CATEGORY

Bug Number	Bug Description	Change Comments
		<ul> <li>DIM_FINMKT_QUOTE_TYPE_CD</li> </ul>
31768710	INCORRECT COLUMN DEFINITION OF STG_LOAN_CONTRACTS.N_EOP_C URR_PRIN_BAL. IT IS REFERRING TO LEASES	Modified all occurrences of the N_EOP_CURR_PRIN_BAL column definition in the data model.
31761415	UDP UPDATE NEEDED FOR STG_CREDIT_PARTCPN_DETAILS TO ENABLE DQ	Modified the table UDPs to 'YES' for the tables STG_CREDIT_PARTCPN_DETAILS and FSI_PARTY_STD_PARTY_MAP.
31749331	UPDATE LOGICAL COLUMN NAME AND DESCRIPTION FOR STG_FIXED_ASSETS_DETAILS.N_LE ASE_EXP_LIAB_AMT	Modified the logical name and description of the columns STG_FIXED_ASSETS_DETAILS.N_LEASE_EXP_LIAB_AM T and FCT_FIXED_ASSETS_DETAILS.N_LEASE_EXP_LIAB_AM T.
31718561	UPDATE COLUMN DEFINITION FOR STG_SWAPS_CONTRACTS.N_ACCR UED_INTEREST_RCV	Modified the STG_SWAPS_CONTRACTS.N_ACCRUED_INTEREST_RC V column definition in the data model.
31705294	UPDATE MAPPING OF FCAS.N_UNDRAWN_AMOUNT BASED ON THE PARTICIPATION/SYNDICATION DESIGN	Added the N_UNDRAWN_AMOUNT column mappings from the tables STG_LOAN_CONTRACTS, STG_LC_CONTRACTS, STG_BILLS_CONTRACTS, STG_LEASES_CONTRACTS, STG_INVESTMENTS to the FCT_COMMON_ACCOUNT_SUMMARY table.
31659853	STG_BORROWINGS ELEMENTS OVERLAP WITH STG_INSTRUMENT_CONTRACT_M ASTER	Separated the overlapping columns between the tables STG_BORROWINGS and STG_INSTRUMENT_CONTRACT_MASTER columns by modifying the mappings in the following T2Ts: • T2T_STG_FORWARDS_CAS • T2T_STG_FUTURES_CAS • T2T_STG_FX_CONTRACTS_CAS • T2T_STG_MUTUAL_FUNDS_CAS • T2T_STG_OPTIONS_CAS • T2T_STG_SWAPS_CONTRACTS_CAS • T2T_FCT_ASSETS_SOLD • T2T_FCT_CAP_INSTR_DETL • T2T_FCT_CAP_INSTR_DETL • T2T_FCT_CREDIT_PARTCPN_DETAILS • T2T_FCT_MITIGANTS • T2T_FCT_PLACED_COLLATERAL • T2T_FDB_STG_BORROWINGS • T2T_FDB_STG_CASA • T2T_STG_BORROWINGS_CAS • T2T_STG_CARDS_CAS

Bug Number	Bug Description	Change Comments
		T2T_STG_CREDIT_DERIVATIVES_CAS
30702220	SCD MAPPING MISSING FOR COLUMN DIM_UNDERLYING.V_UNDERLYING _TYPE_CODE (SCD 456)	Added mapping from the STG_UNDERLYING_MASTER.V_UNDERLYING_TYPE_C ODE column to the DIM_UNDERLYING.V_UNDERLYING_TYPE_CODE column in the SCD-456.
30578435	UPDATE INCOMPLETE/TRUNCATED ATTRIBUTE DEFINITIONS LISTED	<ul> <li>Modified the definitions of the following columns in the data model:</li> <li>STG_CREDIT_PARTCPN_DETAILS.N_DEFERRED_C UR_BAL</li> <li>STG_CREDIT_PARTCPN_DETAILS.N_EOP_BOOK_B AL and FCT_CREDIT_PARTCPN_DETAILS.N_EOP_BOOK_B AL</li> <li>STG_CREDIT_PARTCPN_DETAILS.N_EOP_CURR_P RIN_BAL and FCT_CREDIT_PARTCPN_DETAILS.N_EOP_CURR_P RIN_BAL</li> <li>STG_CREDIT_PARTCPN_DETAILS.V_ORIGINAL_AC COUNT_NUMBER</li> <li>STG_CREDIT_PARTCPN_DETAILS.N_ACCRUED_IN TEREST and FCT_CREDIT_PARTCPN_DETAILS.N_ACCRUED_INT EREST</li> <li>STG_CREDIT_PARTCPN_DETAILS.N_ACCRUED_INT EREST</li> <li>STG_CREDIT_PARTCPN_DETAILS.N_TOT_COMM_AMT and FCT_CREDIT_PARTCPN_DETAILS.N_TOT_COMM_AMT</li> <li>F_TROUBLED_DEBT_RESTRUCRE_FLAG F_REVOLVE_IND</li> </ul>
30577963	INCORRECT MAPPING FOR ORIGINAL MATURITY DATE FROM STAGE BORROWINGS IN FCAS	Added the D_ORIG_MATURITY_DATE column in the STG_BORROWINGS table and mapped it to the FCT_COMMON_ACCOUNT_SUMMARY table in the T2T_STG_BORROWINGS_CAS.
30384734	ENHANCE COLUMN DESCRIPTION FOR F_FIDUCIARY_RELATIONSHIP_FLA G	Modified the F_FIDUCIARY_RELATIONSHIP_FLAG column definition in the data model.
30184173	MISSING LATEST RECORD INDICATOR FILTER ON DIMENSIONS IN T2TS	To enable the usage of only the latest records from the dimension tables in the Stage table to the Fact table T2Ts, added the missing F_LATEST_RECORD_INDICATOR = 'Y' logic.
29134981	ADDITION OF N_HLDG_PERIOD_FOR_HAIRCUT TO STG_FORWARDS AND T2T MAPPING TO RESPECTIVE FCT TABLES	Added the N_HLDG_PERIOD_FOR_HAIRCUT column in the STG_FORWARDS table and modified the T2T_STG_FORWARDS_CAS.

Bug Number	Bug Description	Change Comments
28926767	LINE OF BUSINESS STATUS FLAG ONLY IN STG_LOB_MASTER. REQUIRED IN DIM_LOB AND SCD	Added the F_LOB_STATUS_FLAG column in the STG_LOB_MASTER table, mapped it to the DIM_LOB.V_LOB_STATUS_FLAG column, and modified the SCD-61. The List of Values (LOVs) in the DIM_LOB table is A (Active) and I (Inactive).

### 3.5 Known Issues or Limitations

The known issue in the OFS Data Foundation Application Pack release v8.0.9.4.0 is as follows.

• The column size of STG\_EMBEDDED\_OPTIONS\_SCHEDULE.V\_INSTRUMENT\_CODE is not increased to VARCHAR2(50) in the OFSDF 8.0.9.x.x version, however, the same column size is increased in the OFSDF Application Pack 8.1.0.0.0 release. Oracle recommends that if required, the customer can increase the same column size in their OFSDF 8.0.9.x.x environment.

The limitation in the OFS Data Foundation Application Pack release v8.0.9.4.0 is as follows:

• Limitation:

Filters using DIM\_DATA\_ORIGIN are not present in T2Ts.

#### Workaround:

Follow this workaround to introduce the filters using DIM\_DATA\_ORIGIN:

**a.** Download the post-script file <code>SOR\_postscript\_update.sql</code> from <u>My Oracle Support</u> (<u>MOS</u>) and execute it in the CONFIG schema.

**NOTE** Oracle recommends executing the post-script after resaving the Hierarchy if any.

- **b.** Follow these steps to create a Job Definition:
  - i. Create a Hierarchy that contains DIM\_DATA\_ORIGIN.
  - **ii.** Navigate to the Rules Run Framework window and select the Run on which the filter condition must be applied.
  - iii. Create a Job Condition for the selected Run.

For detailed information, see the *Select Job Condition for Run* section in the <u>Oracle Financial</u> <u>Services Data Foundation Application Pack User Guide Release 8.0.9.0.0</u>.

# 4 Hardware and Software Tech Stack Details

The hardware and software combinations required for the OFS Data Foundation Application Pack Release v8.0.9.4.0 are available in the <u>Oracle Financial Services Analytical Applications Technology</u> <u>Matrix Release 8.0.9.0.0</u>.

# 5 Licensing Information

For details on the third party software tool used, see the <u>OFSAA Licensing Information User Manual</u> <u>Release 8.0.9.0.0</u> available in the OHC Documentation Library.

## **OFSAA Support**

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