Oracle Financial Services Compliance Studio

Release Notes

Release 8.1.2.1.0

September 2022

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ORACLE®
Financial Services

OFS Compliance Studio Release Notes

Document Control

Table 1 lists the document control of this guide:

Table 1: Document Control

Revision Number	Revision Date	Change Log
8.1.2.1.0	September 2022	Updated Model Management & Governance steps in the Capabilities offered by Compliance Studio section. Updated the following sections: • New Features in this Release • Known Issues and Limitations in this Release • Licensing Information Removed the "Oracle Financial Services Analytical Applications Infrastructure" section.
8.1.2.0.0	March 2022	This is crafted for the release of the v8.1.2.0.0 version.

Table of Contents

1 About this Guide

This section provides supporting information for Oracle Financial Services Compliance Studio Release Notes.

Topics:

- Purpose of this Document
- Intended Audience
- Access to Oracle Support
- Related Information Sources

1.1 Purpose of this Document

This document contains release information of Oracle Financial Services Compliance Studio, Release 8.1.2.1.0.

1.2 Intended Audience

This document is intended for users of Oracle Financial Services Compliance Studio, Release 8.1.2.1.0.

1.3 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.

1.4 Related Information Sources

This section identifies additional documents related to OFS Compliance Studio. You can access the below documents online from the Oracle Help Center (OHC) Documentation Library for OFS Compliance Studio Applications Pack Release 8.1.2.1.0:

- Oracle Financial Services Compliance Studio Installation Guide, Release 8.1.2.1.0
- Oracle Financial Services Compliance Studio Administration and Configuration Guide, Release 8.1.2.1.0
- Oracle Financial Services Compliance Studio User Guide, Release 8.1.2.1.0
- Oracle Financial Services Compliance Studio Use Case Guide, Release 8.1.2.1.0
- Oracle Financial Services Compliance Studio Architecture Guide, Release 8.1.2.1.0
- Oracle Financial Services Compliance Studio API Guide, Release 8.1.2.1.0
- Oracle Financial Services Compliance Studio Matching Guide, Release 8.1.2.1.0
- Oracle Financial Services Compliance Studio Data Model Guide, Release 8.1.2.1.0

2   Introduction to OFS Compliance Studio

OFS Compliance Studio is an advanced analytics application that supercharges anti-financial crime programs for better customer due diligence, transaction monitoring, and investigations by leveraging the latest innovations in artificial intelligence, open-source technologies, and data management. It combines Oracle's Parallel Graph Analytics (PGX), Machine Learning for AML, Entity Resolution, Model Management and Governance, notebook-based code development and enables Contextual Investigations in one platform with complete and robust model management and governance functionality.

2.1   Capabilities offered by Compliance Studio

- Purpose Built for Fighting Crime

  - Fully defined and sourced Financial Crime Graph Model supporting detection and investigation

  - Provided Accelerators for finding the needles in the haystack.

  - What if Analysis for existing Scenarios

  - Integration with ECM and Investigation Hub to provide meaningful guidance to investigators for rules-based and ML generated alerts

  - Enterprise-ready and compatible with underlying OFSAA framework

  - Works with current and earlier 8.0.x releases of Oracle Financial Crime and Compliance Management Anti Money Laundering (AML), Enterprise Case Management, and Fraud applications.

- Entity Resolution for AML

  - Entity Resolution to enhance monitoring effectiveness and provide a single customer view

  - Linking and Resolution across internal & external data to improve single entity detection

  - Allows for Scenario/Model detection across internal data

  - Multi-attribute enabled with ML boosts for Name/Address models

  - Prebuilt Integrations and easily configurable for Data Sources like ICIJ, etc.

- Analytics of Choice

  - Choose from our proprietary models or bring your own

  - Fully embedded Graph Analytics Engine and Financial Crime Model

  - Embedded with a highly scalable in-memory Graph Analytics Engine (PGX)

  - Industry's most intuitive Graph Query Language to gain rapid insights

- Model Management & Governance

  - End-to-end management from model creation to model deployment.

    — Data Ingestion (Oracle DB, Graph, Hive)

    — Model Development

    — Supports virtually all open source packages, interpreters, etc.

    — Supports non-ML

    — Process in Database or Big Data

— Model Training

— Model Performance Evaluation

— Model Explainability

— Model Tracking and Audit

— Approval Mechanisms

— Model Deployment

— Scheduling

— Ongoing Monitoring

- ML Foundation for Financial Crimes

  - Integrated with Oracle Financial Crime Application Data and readily usable across the enterprise financial crime data lake.

  - Pre-engineered features and transformations to address each use case

  - Simplified APIs for each stage of the modeling lifecycle

  - Leverage the power of Graph, Supervised ML, and Unsupervised ML build typology detection models, detect anomalies, and risk score customers or events

  - Event Scoring for false positive prediction and disposition

  - Dashboards and KPIs to measure the impact of ML and generate insights for business users

  - Ongoing Monitoring of Model Performance and Concept Drift

2.2   New Features in this Release

The following new features are incorporated in this Release 8.1.2.1.0. For detailed information on using these features, see the Oracle Financial Services Compliance Studio User Guide - Release 8.1.2.1.0 and Oracle Financial Services Compliance Studio Administration and Configuration Guide - Release 8.1.2.1.0.

- **Graph Pipeline** has been introduced.

  Compliance Studio allows users to harness the power of Graph Analytics using our in-built in-memory Oracle Graph Analytics Engine (PGX). A pre-configured financial crime graph is provided, which loads data from our Financial Crime Data Model and ICIJ through configurable pipelines.

  The Graph Pipeline functionality within Compliance Studio allows users to define graphs easily, attach underlying data, and match pipelines to populate data in the graph.

- **Data Pipeline** has been introduced.

  Data Pipeline allows users to transform the source data into the Node and edge that are required in Graph Schema.

- **Dataset** has been introduced.

  Datasets allow for the creation of a dataframe, a data structure that captures the logic that organizes data into a 2-dimensional table of rows and columns. Datasets allow for the reuse of these dataframes across models, as well as the features derived from the data source(s).

- UI/UX Enhancements

  Modified UI/UX elements include the Compliance Studio application's menu, button, widget, and theme.

  Renamed the following menus:

  — Model Pipelines

  — Audit Trail

- Implemented a new action, Re-initialize session in the Notebook to re-initialize the paragraph.

- Entity Resolution now supports executing the jobs automatically using wrapper shell script in a specified sequence.

- Removed scenarios such as HRG - AC Focus, RMF - AC Focus, and RMF - CUS Focus on the Notebook.

- Updated the supported versions for Java, Processing Server, Elastic Search, and Logstash.

- Allowed upgrade from the following versions to OFS Compliance Studio 8.1.2.1.0.

  ▪ OFS Compliance Studio 8.1.2.0.0

  ▪ OFS Compliance Studio 8.1.2.0.1

  ▪ OFS Compliance Studio 8.1.1.1.0

  ▪ OFS Crime and Compliance Studio 8.0.8.2.0

The following new features are introduced in prepackaged ML4AML Model templates:

- **Ongoing Monitoring/Validations for Supervised Models**

  Financial institutions are required to monitor models deployed in production to ensure they are functioning as expected.

  Compliance Studio allows you to monitor the model for the following:

  ▪ **Monitoring Model Performance**

    To evaluate model performance by computing standard model performance metrics when labels are available.

  ▪ **Monitoring a Model for Concept Drift**

    To monitor the model for concept drift when labels are not available. This can provide an early warning signal if the model's deteriorating performance.

- **Shell Account Detection in Typology Scenarios**

  Compliance Studio allows you to create a shell company detection scenario using out-of-the-box features provided by Compliance Studio.

- **Customer Segmentation** is enhanced with the following:

  ▪ Anomaly detection for peer groups

  ▪ Anomaly Explanations

  Besides the top-down approach of creating segments informed by business domain expertise and then using clustering techniques to identify more granular segments, Compliance Studio now allows you to implement the bottom-up approach of clustering a population of customers directly and then creating more granular peer groups of similar customers using business domain expertise. You can use anomaly scoring to identify customers behaving anomalously in these peer groups and then explain why the customer's behavior is anomalous.

For more information, see the following use cases in the OFS Compliance Studio Use Case Guide (ML4AML):

- Customer Segmentation and Anomaly Detection
- Shell Account Detection Scenario for AML
- Ongoing Monitoring

2.3 Installing the Release

For detailed instructions on installing the release, see the Oracle Financial Services Compliance Studio Installation Guide - Release 8.1.2.1.0.
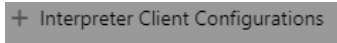
2.4 Known Issues and Limitations in this Release

Table 2 lists the known issues or limitations in this release.

Table 2: Known Issues or Limitations

Sl. No.	Bug ID	Known Issue or Limitation	Workaround
1	34555100	Performance bottleneck for "Derived Entity Node" data pipeline with higher volumes.	This will work with low volumes.
2	34555103	Interpreters - python interpreter execution is stuck if the internal Code takes very long to run. For example, Code results in infinite loops.	-
3	34555120	Manual Decision UI - Legacy ETL -manually approved edges are not inserted into training data tables.	-
4	34555125	Entity Resolution - Full Load - Delete Scenario - Pending Manual Action - user cannot see a temporary global party ID if a customer is deleted on Day 2 and the manual action is still waiting for approval.	-
5	34555129	Entity Resolution - unique constraint error in er data survival job when multiple merge and ds rulesets are enabled.	-
6	34555134	Deployment - interpreter - python interpreter log file size keeps increasing more than one terabyte (TB) and occupies the server hard disk space.	-
7	34555136	Split and Merge UI screen: The user is unable to split the global ID all at once if it has more than 1000 entities.	-
8	34555140	Installer – Reinstall is not updating the SSO token.	Workaround - user must manually update the table "NEXTGENEMF_CONFIG " in Compliance Studio schema.

Table 2: Known Issues or Limitations

9	34555151	Compliance Studio – A user with a DSUSER role should not see the Data Studio options.	-
10	34555157	Graph Pipeline - consecutive graph pipeline runs increase delta and inter-table counts in the graph schema.	Manually clean up the temporary tables.
11	34555165	Data pipeline UI is not opening from the MMG screen when using the Firefox browser if the self-signed certificate is used.	-
12	34555169	In the pipeline designer pop-up, on the deletion of the dataset, the user gets an error in UI, though the dataset is deleted successfully.	-
13	34555199	Graph Pipeline - when the graph batch is executed for the first time and the **Schedule Type** is set as **Once** and the selected **Schedule Time** is past time, then two batches with two different run IDs will be generated. From these two batches, the second job will fail.	This issue happens only when the **Schedule Type** is **Once** and the selected **Schedule Time** is past time. The scheduled time should be more than or equal to the current time.
14	33610558	Compliance Studio UI will be unresponsive when the User Navigate to **Data Studio Options** > **Interpreters** and Click **Add** + Interpreter Client Configurations in later versions of the chrome browser.	This will work in other browsers.
15	33429546	Name and address transliteration is not happening for both source and target while matching.	-
16	33869980	Wrong success message for failed batch "import_training_models.sh".	-
17	33429584	Incremental training batch – the ability to delete the training view is currently hardcoded in the .sh file, which will always delete the training view.	-
18	32895355	User activity: Notebook- Check/Uncheck of notebooks is not working correctly.	-
19	32895388	**User activity**: Investigation Hub – "export to pdf" paragraph gives insufficient information about the SI notebook.	-
20	32895430	Manual Decision notebook is locked in OOB Compliance Studio. By default, it should be unlocked.	How to unlock, see the **Unlock the Notebook** section in the OFS Compliance Studio Administration and Configuration Guide.

Table 2: Known Issues or Limitations

21	33869985	Entity Resolution - Unique Constraint Error for **STG_CUSTOMER_IDENTIFCTN_DOC** table while executing the Data Survival job.	-
22	33870003	PGX memory limit is not working for PGX Roles.	You must execute the Redaction job twice.
23	33870005	An incorrect message " To date greater than the From date" is displayed when you select To Date that is greater than From Date.	-
24	33870011	In the Tasks, sorting order does not work for the Paragraph and Interpreter columns.	-
25	33924005	Entity Resolution - Delta Load - After updating the customer data, matching between customers and the old set of updated customer data.	-
26	Limitation	**User Activity - Graph Pipeline UI**: Cloning of Node or Edge data pipeline using **Clone From an Existing Data Pipeline** option does not work if **Node** or **Edge** attributes are not the same as Cloned Data Pipeline.	1. Launch Workspace, Navigate to **Graph Options**. 2. Select the graph pipeline for which you want to create a **Node** or **Edge**. 3. On the **Graph Summary** page, click **Create Node**. The Node Details window is displayed. 4. Under the **Manage Pipeline(s)** group, click **Create** drop-down and select the **Data Pipeline**. The Create Pipeline window is displayed. While creating the Data Pipeline using the **Clone From an Existing Data Pipeline** option, ensure that the number of attributes and the attribute names for Node or Edge used in **Graph Definition** must be the same as cloned **Data Pipeline** attributes.

3   Hardware and Software Tech Stack Details

For more details on the hardware and software combinations, see Oracle Financial Services Analytical Applications 8.1.2.0.0 Technology Matrix available in the OHC Tech Stack.

4   Licensing Information

For details on the third-party software tool used, see the *OFSAA Licensing Information User Manual Release 8.1.1.0.0* available in the Licensing Information User Manuals.

5   **OFSAA Support**

Raise a Service Request (SR) in My Oracle Support (MOS) for queries related to the OFSAA applications.

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Oracle welcomes your comments and suggestions on the quality and usefulness of this publication. Your input is an important part of the information used for revision.

- Did you find any errors?
- Is the information clearly presented?
- Do you need more information? If so, where?
- Are the examples correct? Do you need more examples?
- What features did you like most about this manual?

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