

# **Oracle Financial Services Investigation Hub**

## **Installation Guide**

**8.1.1.0.0**

**October 2021**

**F49103-01**

**ORACLE**  
Financial Services

## Oracle Financial Services Investigation Hub Installation Guide

Copyright © 2021 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 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 for taking 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 the 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.

For information on third party licenses, click [here](#).

# Document Control

Version Number	Revision Date	Change Log
8.1.1.0.0	October 2021	This is the first version created for IH 8.1.1.0.0 release based on OFS Compliance Studio 8.1.1.0.0 release.

This table records the number of revisions or changes done to this document as part of a release.

# Table of Contents

<b>1</b>	<b>Preface .....</b>	<b>5</b>
1.2	Audience.....	5
1.3	Related Documents.....	5
1.4	Conventions.....	5
1.5	Abbreviations .....	6
<b>2</b>	<b>Investigation Hub Application Installation .....</b>	<b>7</b>
2.1	Prerequisites.....	7
2.2	Preparing for Installation.....	7
2.3	Installing the Software.....	8
2.3.1	<i>Obtaining IH Notebooks</i> .....	8
2.3.2	<i>Importing IH Notebooks</i> .....	8
2.3.2.1	Example .....	11
2.4	Post Installation Steps .....	13
	<b>OFSAA Support.....</b>	<b>12</b>
	<b>Send Us Your Comments .....</b>	<b>13</b>

# 1 Preface

This section provides supporting information for the OFS Investigation Hub application Installation Guide.

Topics:

- [Summary](#)
- [Audience](#)
- [Related Documents](#)
- [Conventions](#)
- [Abbreviations](#)

## 1.1 Summary

Before you begin the installation, ensure that you have access to the Oracle Support Portal with valid login credentials to notify us of any issues at any stage quickly. You can obtain the login credentials by contacting Oracle Support.

## 1.2 Audience

The Installation Guide is intended for system engineers responsible for installing and configuring the OFS Investigation Hub Application's components.

### **Prerequisites for the Audience**

The document assumes that you have experience in installing Enterprise components and basic knowledge about the following are recommended:

- PGQL, and PGX
- UNIX commands
- Database concepts

## 1.3 Related Documents

This section identifies additional documents related to the OFS Investigation Hub application. You can access the following documents from [Oracle Help Center Documentation Library](#):

- *Oracle Financial Services Investigation Hub Administration and Configuration Guide*
- *Oracle Financial Services Investigation Hub User Guide*
- *Oracle Financial Services Investigation Hub ReadMe*

## 1.4 Conventions

The following table lists the text conventions used in this document:

**Table 1: Conventions Used in this Guide**

Convention	Meaning
<b>Boldface</b>	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 on the screen, or text you enter.

## 1.5 Abbreviations

The following table lists the abbreviations used in this document:

**Table 2: Abbreviations and Their Meaning**

Abbreviation	Meaning
OFS	Oracle Financial Services
HTTPS	Hypertext Transfer Protocol Secure
JDBC	Java Database Connectivity
LDAP	Lightweight Directory Access Protocol
LHS	Left Hand Side
MOS	My Oracle Support
OS	Operating System
SFTP	Secure File Transfer Protocol
URL	Uniform Resource Locator
WAR	Web application Archive
JAR	Java Archive
PGX	Parallel Graph AnalytiX
PGQL	Property Graph Query Language
XML	Extensible Markup Language
IH	Investigation Hub

---

## 2 Investigation Hub Application Installation

This chapter provides the necessary information required to understand the installation of the Oracle Financial Service (OFS) Investigation Hub application.

Topics:

- [Prerequisites](#)
- [Preparing for Installation](#)
- [Installing the Software](#)
- [Post Installation Steps](#)

### 2.1 Prerequisites

The installation of this application depends on a few prerequisites, which are discussed in the following list:

- Oracle Financial Services Compliance Studio Application Release 8.1.1.0.0 must be installed. For further information, see [Oracle Financial Services Compliance Studio Installation Guide](#).
- On top of **ECM 8.0.8.0.0** apply the following patches
  - 8.0.8.0.41 (BUG: **32559114**): ECM-Investigation Hub Integration Patch
  - 8.0.8.0.28 (BUG: **31497997**): ECM-ML4AML Integration Patch
- On top of **ECM 8.0.8.1.0** (BUG: **32589501**) apply following patches
  - 8.0.8.1.3 (BUG: **33164973**): ECM-Investigation Hub Integration Patch
  - 8.0.8.1.4 (BUG: **33395125**): ECM-ML4AML Integration Patch

### 2.2 Preparing for Installation

1. Login to <https://support.oracle.com/> with a valid Oracle account and search for the patch ID (Bug ID - **33389581**) under the *Patches & Updates* tab.  
You can also check the patch ID in the [Oracle Financial Services Investigation Hub Release Notes](#).
2. Copy the downloaded installer archive to the Download Directory (in Binary Mode) on the setup identified for OFS Compliance Studio installation.

## 2.3 Installing the Software

There is no separate installer to import the IH notebooks as Model Drafts through the OFS Compliance Studio, which is available for all the users.

### 2.3.1 Obtaining IH Notebooks

Once you obtain the installer, copy the installer (in BINARY mode) to the system on which the OFSAA Infrastructure components will be installed.

#### NOTE

You must be logged in to the UNIX operating system as a non-root user.

1. Extract the contents of the Oracle Financial Services Investigation Hub 8.1.1.0.0 to Download Directory using the following command:

```
unzip OFS_FCCIH_8.1.1.0.0_LINUX.zip
```

2. Copy the notebooks from <IH\_installer\_path>/OFS\_FCCIH/notebook to local directory.

### 2.3.2 Importing IH Notebooks

To create an objective (folder) and Draft to import the IH notebooks manually through the Compliance Studio application, perform the following steps:

#### NOTE

- There is no separate installer to import the IH notebooks as Model Drafts through the OFS Compliance Studio, which is available for all the users.
- For IH Notebook to be executable, it needs to be imported into the **Sandbox** workspace.
- In the case of the Special Investigation notebook, creating an Objective and Draft to import the notebook must be performed for each user separately.
- An Administrator can also import the IH notebooks for all users.
- The importing notebook process is the same for On-Premise and Kubernetes.

1. Enter the URL in the following format in the web browser:

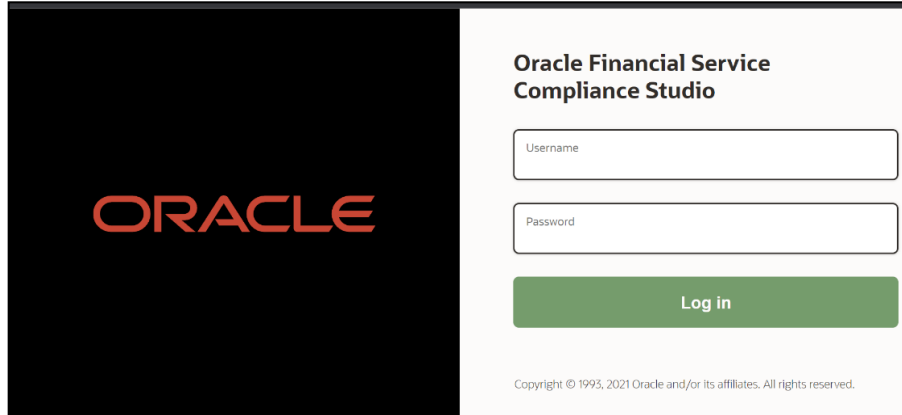
```
https://<Host_Name>:<Port_Number>/cs/home
```

Here <Port\_Number> is **7001** for the OFS Compliance Studio application installed on-premise.

2. The OFS Compliance Studio application login page is displayed.

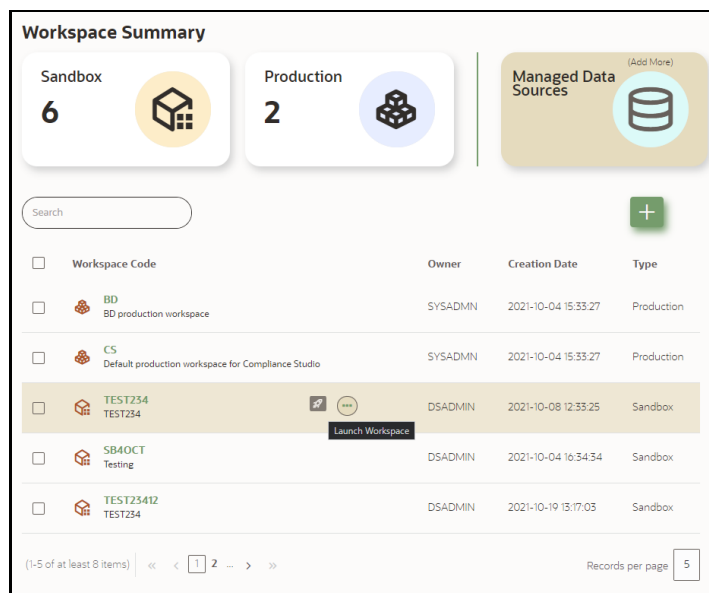


Figure 1: OFS Compliance Studio Login Page




3. Enter the **Username** and **Password**.
4. Click **Login**.
5. After login into the OFS Compliance Studio application, the Workspace Summary page is displayed.

Figure 2: Workspace Summary page



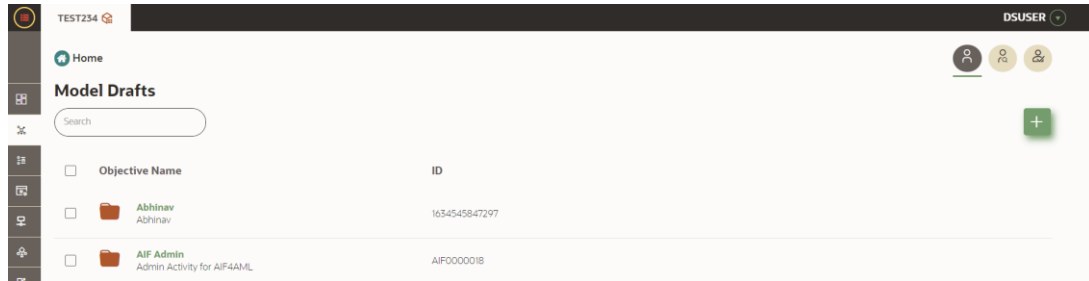
Workspace Code	Owner	Creation Date	Type
BD BD production workspace	SYSADMIN	2021-10-04 15:33:27	Production
CS Default production workspace for Compliance Studio	SYSADMIN	2021-10-04 15:33:27	Production
TEST254 TEST234	DSADMIN	2021-10-08 12:33:25	Sandbox
SB4OCT Testing	DSADMIN	2021-10-04 16:34:34	Sandbox
TEST2541Z TEST234	DSADMIN	2021-10-19 13:17:03	Sandbox

6. Select Launch workspace  for a corresponding **Sandbox** on the Workspace Summary page to display the application configuration and model creation menu.

**NOTE** For IH Notebook to be executable, it needs to be imported into the **Sandbox** workspace.

7. Hover the mouse over the **Advanced Options** widget  to display the Advanced Model Management window.

Figure 3: Advanced Model Management




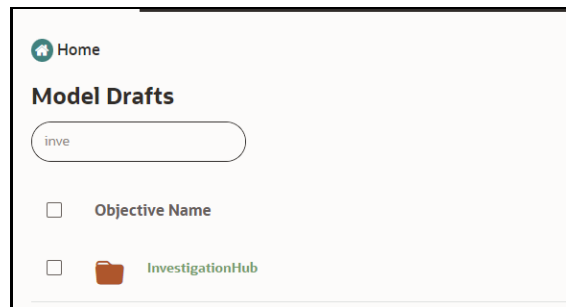
8. Click on the **Actions**  icon and select **Objective** to display Add Objective window.

Figure 4: Add Objective

- a. Provide the Objective Name and description. For example, enter **InvestigationHub** as a new objective.
- b. Click **Save**. The new Objective will be created.

Figure 5: InvestigationHub Objective




9. Open the Objective (InvestigationHub) folder, click **Actions**  icon, and select **Draft** to display Add Draft window.

Figure 6: Add Drafts to Import notebooks

10. Toggle the **Import Dump** button.
  - a. Click **Import Archive File** and browse the path where downloaded notebooks are available in the local directory. See [Obtaining the Notebooks](#) section.

Import the following Notebooks from your local directory one by one.

- Investigation\_Hub\_Special\_Investigation.dsnb
- Investigation\_Hub\_Generate\_Correlated\_Networks.dsnb
- Investigation\_Hub\_ECM\_Integration\_L2.dsnb
- Investigation\_Hub\_ECM\_Integration\_L1.dsnb

#### NOTE

- Generate Correlated Networks notebook is an example for non-ECM customers. It is a sample notebook and you can create based on your requirement.
- It is applicable for the Administrator. An Administrator can configure the parameters for Investigation using the Special Investigations notebook. For more information, see the [Oracle Financial Services Investigation Hub Administration and Configuration Guide](#).

b. Click **Import**.

11. After import into the InvestigationHub Objective, the Model Drafts page is displayed.



**Figure 7: Investigation Hub Objective after importing notebooks**


Objective Name	ID	Owner	Tags
Investigation Hub ECM Integrations L1 Enables the investigator to view a case and search for one or multiple names and/or addresses in order to examine their network, red flags, and risk factors.	1654826480255	DSADMIN	ECM Integration Investigation Hub
Investigation Hub ECM Integrations L2 Enables the investigator to view a case and search for one or multiple names and/or addresses in order to examine their network, red flags, and risk factors.	165482642450	DSADMIN	ECM Integration Investigation Hub
Investigation Hub Generate Correlated Networks This is a sample notebook for the users who want to generate the correlated networks of Cases without ECM. This notebook is not meant to be used by users who are using Studio configured with ECM as ECM does all the correlation.	1654826597437	DSADMIN	Investigation Hub
Investigation Hub Special Investigations Enables the investigator to search for one or multiple names and/or addresses in order to examine their network, red flag and risk factors.	1654826538233	DSADMIN	Investigation Hub Special Investigations

### 2.3.2.1 Example

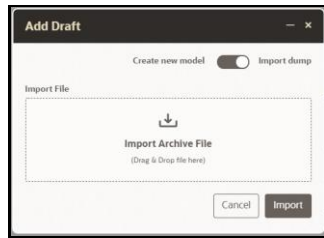
The importing process is the same for all users, but they must create Objectives and Drafts individually.

#### 2.3.2.1.1 User1

1. Login into the OFS Compliance Studio application as **User1**.
2. Select Launch workspace  for a corresponding **Sandbox** on the Workspace Summary.
3. Navigate to the **Advanced Model Management** window.
4. Click on the **Actions**  icon and select **Objective** to display Add Objective window.
  - a. Provide the Objective Name and description. For example, enter **InvestigationHub** as a new objective.
  - b. Click **Save**. The new Objective will be created.

- Open the Objective (InvestigationHub) folder, click **Actions**  icon, and select **Draft** to display Add Draft window.

**Figure 8: Add Drafts to Import notebooks**



- Toggle the **Import Dump** button.
  - Click **Import Archive File** and browse the path where downloaded notebooks are available in the local directory.

Import the following Notebooks from your local directory one by one.

- Investigation\_Hub\_Special\_Investigation.dsnb
- Investigation\_Hub\_Generate\_Correlated\_Networks.dsnb
- Investigation\_Hub\_ECM\_Integration\_L2.dsnb
- Investigation\_Hub\_ECM\_Integration\_L1.dsnb


- Click **Import**.

- After import into the InvestigationHub Objective, the Model Drafts page is displayed.

**Figure 9: Investigation Hub Objective after importing notebooks**

Objective Name	ID	Owner	Tags
Investigation Hub ECM Integration L1 Enables the investigator to view a case and search for one or multiple names and/or addresses in order to examine their network, red flags, and risk factors.	US4826481268	DS4DH/N	Investigation Hub, Special Investigation
Investigation Hub ECM Integration L2 Enables the investigator to view a case and search for one or multiple names and/or addresses in order to examine their network, red flags, and risk factors.	US4826542420	DS4DH/N	Investigation Hub, Special Investigation
Investigation Hub Generate Correlated Networks This is a search notebook for the users who want to generate a set of correlated networks in Cases without ECM. This notebook is not meant to be used by users who are using Studio configured with ECM as ECM does all the correlation.	US4826597207	DS4DH/N	Investigation Hub
Investigation Hub Special Investigation Enables the investigator to search for one or multiple names and/or addresses in order to examine their network, red flags, and risk factors.	US4826599222	DS4DH/N	Investigation Hub, Special Investigation

### 2.3.2.1.2 User2

- Login into the OFS Compliance Studio application as a **User2**.
- Select Launch workspace  for a corresponding **Sandbox** on the Workspace Summary.
- Navigate to the Advanced Model Management. **User2** cannot access the IH notebooks that are imported by **User1**.
- User2** must perform the steps to import IH notebooks. Follow the same steps performed by **User1** to import the notebooks. See [User1](#) section.

### 2.3.2.1.3 Administrator

An Administrator can also import the IH notebooks for all users. Follow the same steps performed by **User1** to import the notebooks. See [User1](#) section.

The users (**User1** and **User2**) can navigate to **Advanced Model Management > InvestigationHub** Objective and access imported notebooks.

## 2.4 Post Installation Steps

After importing the notebooks, you can view the notebooks in the following UI path:

Perform the following post-installation steps:

1. Load the graph. For more information, see the *Loading the Graph* section in [Oracle Financial Services Investigation Hub Administration and Configuration Guide](#).
2. On the Workspace Summary page, select **Launch workspace**.
3. Navigate to **Advance model management**, where you can find the Objective.

**Figure 10: Investigation Hub Objective**



4. Click the **Investigation Hub** Objective. Ensure that the following notebooks are available in the Investigation Hub objective.

**Figure 11: Notebooks in Investigation Hub Folder**

The screenshot shows the 'Model Drafts' section of the Investigation Hub interface, specifically the 'InvestigationHub' folder. It displays a table of notebooks with the following columns: Objective Name, ID, Owner, and Tags.

Objective Name	ID	Owner	Tags
Investigation Hub ECM Integration L1 Enables the investigator to view a case and search for one or multiple names and/or addresses in order to examine their network, red flags, and risk factors.	1654028402055	DSADMIN	inv_integratio, investigation hub
Investigation Hub ECM Integration L2 Enables the investigator to view a case and search for one or multiple names and/or addresses in order to examine their network, red flags, and risk factors.	1654028402430	DSADMIN	inv_integratio, investigation hub
Investigation Hub Generate Correlated Networks This is a sample notebook for the users who want to generate a the correlated networks of Cases without ECM. This notebook is not meant to be used by users who are using Studies configured with ECM as ECM does all the correlation.	1654028597937	DSADMIN	investigation hub
Investigation Hub Special Investigations Enables the investigator to search for one or multiple names and/or addresses in order to examine their network, red flags, and risk factors.	1654028536235	DSADMIN	investigation hub, special investigations

## **OFSAA Support**

Raise a Service Request (SR) in [My Oracle Support \(MOS\)](#) for queries related to OFSAA applications.

## Send Us Your Comments

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 presented with clarity?
- 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?

If you find any errors or have any other suggestions for improvement, indicate the title and part number of the documentation along with the chapter/section/page number (if available) and contact Oracle Support.

Before sending us your comments, you might like to ensure that you have the latest version of the document wherein any of your concerns have already been addressed. You can access the My Oracle Support site, which has all the revised/recently released documents.

