

# Oracle Cloud ERP Integration Implementation Guide



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# Preface

Oracle Cloud ERP Integration users are authorized to access the following modules and features:

- Oracle Cloud ERP Integration

## Purpose

This guide explains how to use the Oracle Cloud ERP Integration.

## Audience

This document is for administrators and developers who need to use and deploy the Oracle Fusion Accounts Receivables to OPERA Property Management System Accelerator. This connector enables Oracle Fusion Accounts Receivables and the OPERA Property Management System to work together by auto syncing key data and automating processes so that information flows back and forth from Oracle Fusion Accounts Receivables into the OPERA Property Management System as needed.

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When contacting Customer Support, please provide the following:

- Product version and program/module name
- Functional and technical description of the problem (include business impact)
- Detailed step-by-step instructions to re-create
- Exact error message received
- Screenshots of each step you take

## Documentation

Oracle Hospitality product documentation is available on the Oracle Help Center at <http://docs.oracle.com/en/industries/hospitality/>.

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## Revision History

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Date	Description of Change
February 2023	Initial publication

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# 1

## Overview

The Oracle Fusion Accounts Receivables to OPERA Cloud PMS Business Accelerator is a set of integrations that runs on a scheduled basis and handles the propagation of Account Receivables Customers (Parties), Accounts, and Addresses (sites with 'Bill-to' usage) to OPERA Cloud as they are created or updated in Oracle Fusion Accounts Receivables.

Any invoices raised in OPERA Cloud for the synchronized customers are imported into Oracle Fusion Accounts Receivables and changes in customer credit status are synchronized back to OPERA Cloud.

The Oracle Fusion Accounts Receivables to OPERA Cloud PMS Business Accelerator provides a connection between the following:

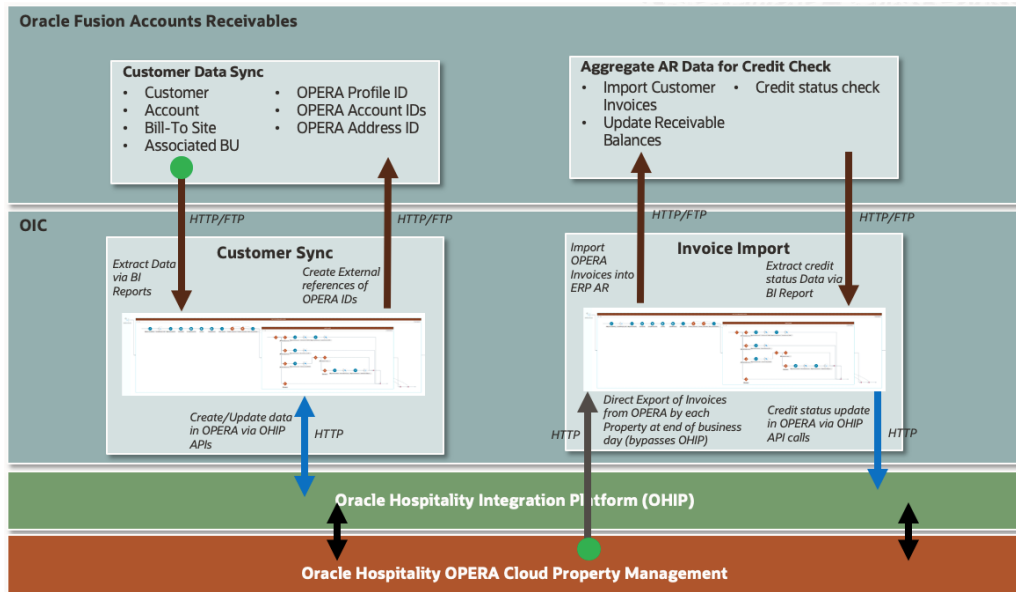
- Oracle Fusion Accounts Receivables front end where Billing Customers are created and managed
- OPERA Cloud PMS front end where customer transactions (booking, billing, and so on) are managed

This accelerator begins with Oracle Fusion Accounts Receivables, where Account Receivables Customers (Parties) are created and managed. As Customers (parties) are created or updated, they are synchronized with OPERA Property Management System in a scheduled manner as they meet the requisite criteria for synchronization.

As Invoices are created for customers in OPERA Cloud PMS, they are exported from OPERA Cloud and imported into Oracle Fusion Accounts Receivables via this Accelerator, which also checks for any updates in the credit status of each Customer (Party) account in Oracle Fusion Accounts Receivables and propagates any changes in status to OPERA Cloud.

The Accelerator syncs key data between Oracle Fusion Accounts Receivables and OPERA Cloud PMS.

**Figure 1-1 Data Sync between Oracle Fusion Accounts Receivables and OPERA Cloud PMS**



# 2

## Prerequisites

This accelerator is an Oracle Integration Cloud (OIC) component that integrates Oracle OPERA Cloud with Oracle Enterprise Resource Planning (ERP) Cloud. Users looking to deploy this accelerator must have an active subscription of any edition (edition is different from version) of the following services:

- Oracle Integration Cloud (OIC)
- OPERA Cloud including Oracle Hospitality Integration Platform (OHIP)
- Oracle Cloud ERP Integration

Due to the configurations that must be performed on the above cloud services, you should have technical knowledge on how to implement/configure these cloud services.



# 3

## Oracle Cloud ERP Integration

### Configuration Process in Oracle Fusion Accounts Receivables

In Oracle Fusion Accounts Receivables, a receivables manager creates a Customer (Party) of type 'Organization' completing the basic Account, Contact, Account Address, and Address Purposes (Bill-To) fields. Once the Customer is created, the Receivables Manager completes the Reference Accounts fields by associating one or more Oracle Fusion Accounts Receivables Business Units with the Account Address.

On the next scheduled run of the Accelerator:

- A new Profile of type 'Company' is created in OPERA Property Management System.
- Bill-To addresses from Oracle Fusion Accounts Receivables are created as Addresses for the profile in OPERA Property Management System.
- Contact Communication data from Accounts in Oracle Fusion Accounts Receivables are created as Communication data for the Profile in OPERA Property Management System.
- Customer Accounts from Oracle Fusion Accounts Receivables are created as Account Receivables Accounts for the Profile in OPERA Property Management System.
- For each OPERA Property Management System Hotel/Property associated with an Oracle Fusion Accounts Receivables Business Unit, a separate account is created for the Profile and Hotel/Property combination in OPERA Property Management System.
- External system references are created in Oracle Fusion Accounts Receivables for OPERA Property Management System Identifiers for Profile, Address, and Account.
- Updates to the following Data Fields in Oracle Fusion Accounts Receivables are also propagated from Oracle Fusion Accounts Receivables to OPERA Property Management System – Account Number, Account Contact Points, and Account Address.
- Oracle Fusion Accounts Receivables 'Account Termination Date' and Account Address/ Address Purposes 'To date' are treated as special cases and handled by the application of a specific 'Restriction' on the Account in OPERA Property Management System.

 **Note:**

The restrictions are applied on the first scheduled run of the Accelerator on the 'Account Termination Date'/'To Date' +1 (Next day).

### Configuration Process in OPERA Cloud

For OPERA Cloud, 'Organization' type Customer data flows directly from Oracle Fusion Accounts Receivables and is used for transactions such as Bookings, Invoices, and so on.

- Invoice information for Profiles of type 'Company' are exported at periodic intervals from Hotels/Properties in OPERA Property Management System.
- Invoices are exported to a designated File Storage location.
- Invoices are imported into Oracle Fusion Accounts Receivables for further processing.
- A credit check is performed for each customer with any Account Receivables transaction in Oracle Fusion Accounts Receivables since the last scheduled run of the Accelerator.
- A credit status of Oracle Fusion Accounts Receivables Customers 'Over limit'/'Good' is synchronized with OPERA Property Management System.
- A credit status of an Account is reflected in OPERA Property Management System via the application or removal of a specific 'Restriction' on the Account.

## Functional Prerequisites and Constraints

The following prerequisites and constraints must be acknowledged for the Enterprise Resource Planning (ERP) Cloud Centralised AR Business Accelerator:

### Prerequisites

- All customers are first created in Oracle Fusion Accounts Receivables and are then integrated with OPERA Cloud using this Accelerator. This Accelerator considers the smallest amount of data required to create a customer in both systems.
- All configurations for Oracle Fusion Financials in General Ledger and Accounts Receivable applications (as required for customer creation, invoices creation, and account balance/credit status check) must be completed and validated.
- Initial loads for customer migration must be done prior to using the Accelerator. This Accelerator is not intended for mass processing of existing customer data for the first time.
- For pre-existing data, you must ensure that Account Numbers are identical in Oracle Fusion Accounts Receivables and OPERA Cloud.
- External system references have been created in Oracle Fusion Accounts Receivables for Customers, Accounts, and Bill To Sites. You must create an external system in Oracle Fusion Accounts Receivables before creating such external system references.
- Oracle Fusion Accounts Receivables Party ID must be entered as an external reference ID against the profile in OPERA Property Management System.
- An Account Bill-To Site in Oracle Fusion Accounts Receivables must be associated with at least one Business Unit for the customer and account to be created in OPERA Property Management System using this Accelerator. Business Units are associated to the site through the Reference Data Set selected during account creation.
- The Credit limit and Conversion Rate Type are provided at the customer account level in Oracle Fusion Accounts Receivables. It is recommended that the credit limit is in functional currency.

- The Currency conversion type should be set to “Corporate” at customer account level in Oracle Fusion Accounts Receivables. This cannot be modified to any other type.
- For each property in OPERA, a unique Transaction Source should be created in Oracle Fusion Accounts Receivables
- In Oracle Fusion Accounts Receivables, tax setups are set to ‘No’ while importing Invoices.
- OIC Accelerator lookups contain many Oracle Fusion Accounts Receivables and OPERA artifact references, such as Transaction Source, Hotel Code, Business Unit, and so on. Before activating the integrations, all respective Oracle Integration Cloud lookups should be validated and updated to reflect the environment where the accelerator runs.
- A File Storage location should be created as part of the OPERA system for invoice export and error reporting by OIC. A folder structure should be created with necessary read/write access for users performing operations over FTP.
- It is assumed that Fusion Custom Job Names, Parameter Names, BIP report names, and related artifacts are not modified and used as is. If any are modified, all respective references, such as Oracle Integration Cloud lookups, must be updated to reflect the same.

### Constraints

- ERP Integration does not reflect changes made in OPERA Cloud to AR Account communication, address, or credit limit and any changes in OPERA Cloud are overwritten when next updated by ERP Integration.
- A Customer account in Oracle Fusion Accounts Receivables can have only one site. This restriction is imposed to cater to a similar constraint in OPERA Property Management System.
- When end dating a site or site usage in ERP, wait for the site changes to be implemented in OPERA Cloud (typically the next calendar day) before creating a new site in ERP for the account.
- The system effects of an end dated site can be reversed by creating a new site in ERP after the accelerator has processed the end date of the previous site.
- Account and site end dates cannot be reversed once processed.
- A site should not have multiple lines with a ‘Bill-to’ usage.
- The Oracle Hospitality Integration Platform (OHIP) user for the Oracle OPERA Cloud Connection will have access to all properties in the hotel chain that is in scope for the Accelerator.
- For each Invoice line sent from OPERA against one property, the accelerator creates one Invoice Transaction in Oracle Fusion Accounts Receivables.
- Booking details present in the OPERA invoices are captured in Invoice Line Flex-field Segments.
- The Property code from OPERA is captured as a cross reference field in Oracle Fusion Accounts Receivables.
- There is only one Payment Terms configured for each customer account in Oracle Fusion Accounts Receivables. The same Payment Terms could be shared across multiple customer accounts in Oracle Fusion Accounts Receivables.

- Maintenance of the file server, such as monitoring space availability and cleaning up files, is not performed by this accelerator. It is recommended that the file server admin performs the server maintenance activities in the required timeframe based on the usage.
- OPERA Property Management System Invoice exports must be in the format specified in this guide.

For each invoice line, the current version of the accelerator queries OPERA Cloud to fetch the respective customer account address ID to be populated in Oracle Fusion Accounts Receivables. It is assumed that any Oracle Hospitality Integration Platform infrastructure requirements to support this are addressed before implementation of the accelerator.

## Customer Sync Process

This section describes the process to synchronize customers, accounts, and account site business units between ERP and OPERA PMS.

The synchronization of the entire ERP Customer structure is carried out only when a Business Unit (that is, OPERA Property) is associated with a “Bill To” site of an ERP Customer Account.

The accelerator has been designed and developed to consider every situation where ERP Integration objects are new or existing since this impacts how objects are manipulated in OPERA Cloud.

### ERP to OPERA Cloud Object Mapping

For the purpose of this accelerator, the following mapping is used between ERP and OPERA Cloud objects:

**Table 3-1 ERP to OPERA Cloud Object Mapping**

Step	ERP Object	OPERA Object
1	Party/Customer	Company Profile
2	Account	N/A
3	Account Site <sup>(1)</sup>	N/A
4	Account Site Use (Bill To)	AR Address <sup>(2)</sup>
5	Account Site BU association	Profile Account <sup>(3)</sup>

<sup>(1)</sup> For a given Customer Account in ERP, only one Site will be defined. This pertains only to “Bill To” Addresses for a customer of the Hotel Chain and not the Hotel itself.

<sup>(2)</sup> AR Addresses are created in OPERA PMS against a company profile only after step 5 in the table is completed. The association of a Business Unit in ERP is the trigger condition for the synchronization of the entire hierarchy from ERP to OPERA PMS.

<sup>(3)</sup> An OPERA PMS Profile Account is created for each Property (that is, Hotel – Business Unit in ERP) to which the Company Profile has access. A single Account in ERP can be the parent of multiple OPERA ERP Accounts based on the ERP Business Unit to OPERA Property mapping.

## Invoice and Credit Status Sync Process

This section describes the process to import AR Account customer invoices from OPERA Cloud into ERP Account Receivables.

Import invoices exported from OPERA Cloud for AR Account customers from OPERA Cloud into ERP Account Receivables.

Propagate the credit status of customer accounts across all properties based on the ERP Account Receivables Customer Account Balance report.

The following mapping is used between OPERA and ERP invoice data objects.

**Table 3-2 OPERA PMS to ERP Invoice Object Mapping**

OPERA Object	ERP FBDI Object
HOTEL CODE	Line Transactions Flexfield Segment 1
TRANSACTION TYPE	No direct mapping to ERP
N/A	Transaction Batch Source Name – This field is mapped with the corresponding value for each Hotel Code as configured in the ERP system.
N/A	Transaction Type Name – This field is mapped per the ERP system configuration. A value configured in the ERP system is used from lookup for all the invoice imports into ERP.
PAYMENT DUE DAYS	Payment Terms – The Payment Term value from the OPERA invoice is mapped to corresponding Payment string of the ERP system.
INVOICE NUMBER	The Transaction Number and Line Transactions Flexfield Segment 2.
N/A	Original System Bill-to Customer Address Reference – This field is mapped with the Account external system reference as updated by the Customer Sync – Create Account integration.
N/A	Original System Bill-to Customer Address Reference – The Address Id for the Account Number in the OPERA invoice line.
LINE	No direct mapping to ERP.
N/A	Transaction Line Type – Value ‘LINE’ fetched from lookup.
N/A	Transaction Line Description – CONF NUMBER, ARRIVAL, DEPARTURE, and GUEST NAME fields are mapped from the invoice line details.
GROSS AMOUNT	The Transaction Line Amount.
CURRENCY CONVERSION TYPE	The Currency Conversion Type.
CURRENCY CODE	The Currency Code.
INVOICE DATE	The Transaction Date and Accounting Date.
AR ACCOUNT NUMBER	N/A
N/A	Line Transactions Flex Field Context – The value mapped from lookup per ERP configuration.
CONF NUMBER	Line Transactions Flexfield Segment 3
ARRIVAL	Line Transactions Flexfield Segment 5
DEPARTURE	Line Transactions Flexfield Segment 6

**Table 3-2 (Cont.) OPERA PMS to ERP Invoice Object Mapping**

<b>OPERA Object</b>	<b>ERP FBDI Object</b>
GUEST NAME	Line Transactions Flexfield Segment 4
N/A	Taxable Flag – Mapped to ‘N’.
N/A	Business Unit Name – The business unit Name of ERP corresponding to the Hotel Code.

# 4

## Configuration Process for Oracle Cloud ERP Integration

This section describes the necessary configurations for Oracle Integration Cloud, OPERA Cloud, and Oracle Cloud ERP Integration. Before proceeding, ensure you have the required minimum versions of the three Oracle Cloud services as described in this guide. You must have a user with administration privileges in both Oracle Cloud ERP Integration and OPERA Cloud. These users should not be shared with other functions of the cloud services. They should only be used in the context of this accelerator.

### Overview of Configuration Process

- 1. Create an Integration Administration user in Oracle Fusion Accounts Receivables.** This user will be used exclusively for the Oracle Integration Cloud to perform operations in the Oracle Fusion Accounts Receivables using Oracle Integration Cloud ERP Cloud Adapter. For example, name this user 'Fusion AR Integration Administrator.' You will assign this user with the following roles: Attachments User Copy, Financial Integration Specialist, ISC Integration Role, Integration Specialist, and Application Implementation Consultant.
- 2. Create an OHIP Integration account in Oracle Hospitality Shared Security Domain.** This user will be used exclusively for the Oracle Integration authorization activity in the REST Adapter and configuration. For more information, refer to the [Using the Oracle Hospitality APIs](#) topic in the Hospitality Integration Platform User Guide.
- 3. Create an Integration Developer user in Oracle Integration Cloud.** This user will be used exclusively for the Oracle Integration Cloud to perform Oracle Integration cloud operations, such as lookup updates and invoking other integrations in the runtime. For example, name this user 'Fusion\_Opera\_Accelerator OIC Service User.' You will assign this user with the following roles: Service Developer.
- 4. Create an Integration Administrator user in File server.** This user is used exclusively for the Oracle Integration Cloud to perform File Operations over FTP in the File server using the Oracle Integration Cloud FTP Adapter. For example, name this user 'Integration Cloud Service User.' You will assign this user with the following roles: Read/Write Files.

Before proceeding with any configurations, analyze the following table to understand your situation based on the type of deployment.

**Table 4-1 Deployments**

<b>OPERA Cloud Deployment</b>	<b>Oracle Cloud ERP Integration Deployment</b>	<b>Comments</b>
New Deployment	New Deployment	<ul style="list-style-type: none"> <li>• All customer authoring should be done only in Oracle Fusion Accounts Receivables.</li> <li>• Customer Accounts to be synchronized to OPERA Cloud must have the designated "Customer class" associated with them.</li> <li>• Depending on data volume, consider initially scheduling the Accelerator to run at a shorter frequency.</li> </ul>
New Deployment	Existing Deployment	<ul style="list-style-type: none"> <li>• All customer authoring should be done only in Oracle Fusion Accounts Receivables.</li> <li>• Customer Accounts to be synchronized to OPERA Cloud must have the designated "Customer class" associated with them.</li> <li>• Depending on data volume, consider initially scheduling the Accelerator to run at a shorter frequency.</li> </ul>



Table 4-1 (Cont.) Deployments

OPERA Cloud Deployment	Oracle Cloud ERP Integration Deployment	Comments
Existing Deployment	New Deployment	<ul style="list-style-type: none"> <li>• DO NOT activate this Accelerator before completing the data migration from OPERA to Oracle Fusion Accounts Receivables.</li> <li>• Extract Customer account invoices data from the OPERA Property Management System.</li> <li>• Create Customer, Account, and Invoices data in Oracle Fusion Accounts Receivables either manually or using the file upload feature.</li> <li>• Create external system references for each Customer (Party), Account, and Site created in Oracle Fusion Accounts Receivables. <ul style="list-style-type: none"> <li>– Company Profile ID from OPERA Property Management System is used as the External System Ref for Party ID.</li> <li>– AR Address ID is used as the External System Ref for Bill-To Site ID.</li> <li>– A concatenated value (&lt;ERP BU ID&gt;-&lt;OPERA AR Account ID&gt;_&lt;OPERA_HOTEL_ID&gt;) is used as external system references for ACCOUNT ID in Oracle Fusion Accounts Receivables.</li> </ul> </li> </ul>

Table 4-1 (Cont.) Deployments



OPERA Cloud Deployment	Oracle Cloud ERP Integration Deployment	Comments
		<div data-bbox="1182 405 1377 808" style="border-left: 2px solid #0070C0; border-right: 2px solid #0070C0; border-bottom: 2px solid #0070C0; padding: 10px; background-color: #E6F2FF;"> <p> <b>Note:</b></p> <p>For one Account in Oracle Fusion Accounts Receivables, there might be multiple accounts in OPERA Cloud.</p> </div> <ul style="list-style-type: none"> <li data-bbox="1052 842 1377 1039">• For each Profile in OPERA Cloud, the Oracle Fusion Accounts Receivables Party ID must be entered as an external reference ID against the Profile.</li> <li data-bbox="1052 1052 1377 1213">• Depending on data volume, consider initially scheduling the Accelerator to run at a shorter frequency for credit status update.</li> <li data-bbox="1052 1226 1377 1306">• For further technical details, refer to <a href="#">Appendix A</a> in this guide.</li> </ul>

Table 4-1 (Cont.) Deployments

OPERA Cloud Deployment	Oracle Cloud ERP Integration Deployment	Comments
Existing Deployment	Existing Deployment	<ul style="list-style-type: none"> <li>• DO NOT activate this Accelerator before completing the data migration from OPERA to Oracle Fusion Accounts Receivables.</li> <li>• Extract Customer account and invoices data from the OPERA Property Management System.</li> <li>• Extract Customer account data from Oracle Fusion Accounts Receivables.</li> <li>• Carry out a duplication activity to create a list of OPERA Cloud Profiles that must be created in Oracle Fusion Accounts Receivables.</li> <li>• Create Customer, Account, and Invoices data in Oracle Fusion Accounts Receivables either manually or using the file upload feature.</li> <li>• Create external system references for each Customer (Party), Account, and Site created in Oracle Fusion Accounts Receivables. <ul style="list-style-type: none"> <li>– Company Profile ID from OPERA Property Management System is used as the External System Ref for Party ID.</li> <li>– AR Address ID is used as the External System Ref for Bill-To Site ID.</li> <li>– A concatenated value (&lt;ERP BU ID&gt;-&lt;OPERA AR Account ID&gt;_&lt;OPERA_HOTEL_ID&gt;) is used as the external system references for</li> </ul> </li> </ul>

Table 4-1 (Cont.) Deployments

OPERA Cloud Deployment	Oracle Cloud ERP Integration Deployment	Comments
		ACCOUNT ID in Oracle Fusion Accounts Receivables.
		<div style="border: 1px solid #0070C0; padding: 10px; background-color: #E6F2FF;"> <p> <b>Note:</b></p> <p>For one Account in Oracle Fusion Accounts Receivables, there might be multiple accounts in OPERA Cloud.</p> </div>
		<ul style="list-style-type: none"> <li>• For each Profile in OPERA Cloud, the Oracle Fusion Accounts Receivables Party ID must be entered as an external reference ID against the Profile.</li> <li>• Customers to be synchronized to OPERA Property Management System must have the designated 'Customer class' associated with them. For more information, see Configure Oracle Fusion Accounts Receivables.</li> <li>• Depending on data volume, consider initially scheduling the Accelerator to run at a shorter frequency for credit status update.</li> <li>• For further technical details, refer to <a href="#">Appendix A</a> in this guide.</li> </ul>

# Configuring Oracle Cloud ERP Integration

## Creating a Source System

1. Log in to Oracle Fusion Accounts Receivables Cloud with a valid username and password.
2. Select **Others** and then select **Setup and Maintenance**.
3. Select the **Financials** offering from the **Setup** drop down list.
4. Select **Customers** from the Functional Areas list.
5. Click **Manage Trading Community Source Systems**.
6. Click the '+' icon to create a new Source System and enter the required details.
7. Select the Enable check box for Trading Community Members.
8. Click **Save**, click **Close**, and then click **Done**.
9. In Search Tasks, search for **Manage Source System Entities**.
10. In the Search Task Results, select the **Manage Source System Entities** that correspond to the Functional Area 'Customers.' Click **Manage Source System Entities**.
11. Search for the source system name created and select all check boxes.
12. Click **Save** and then click **Close**.

## Creating a Customer Class

1. Log in to Oracle Fusion Accounts Receivables Cloud with a valid username and password.
2. Select **Others** and then select **Setup and Maintenance**.
3. Select the **Financials** offering from the **Setup** drop down list.
4. Select **Customers** from the Functional Area list.
5. In Search Tasks, search for **Manage Customer Account Lookups**.
6. In the search results, select the **Manage Customer Account Lookups** corresponding to the Functional Area 'Customers.' Click **Manage Customer Account Lookups**.
7. Click **CUSTOMER CLASS** and click the '+' icon to create a new Lookup Code.
8. Enter values for **Lookup Code**, **Start date**, and **Meaning and Description**.
9. Use the following value for **Lookup Code**: OPERA.
10. Select the **Enabled** check box
11. Click **Save**, click **Close**, and then click **Done**.

## Creating Transaction Sources



### Note:

There should be one transaction source created for each property defined in OPERA and each one must be added to the relevant Oracle Integration Cloud lookups listed below.

1. Log in to Oracle Fusion Accounts Receivables Cloud with a valid username and password.
2. Select **Others** and then select **Setup and Maintenance**.
3. Select the **Financials** offering from the **Setup** drop down list.
4. Select **Customer Billing** in the **Functional Area** list.
5. In **Search Tasks**, search for **Manage Transaction Sources** and select it in the search results.
6. Click the **Add** icon.
7. In the **Transaction Source Set** field, select the required reference data set.



### Note:

The reference data set must be the same reference data set mapped to the Object - Receivables Transaction Source in the 'Manage Business Unit Set Assignment' setup.

8. In the **Name** field, enter a name for this transaction source.
9. In the **Description** field, enter a description for this transaction source.
10. In the **Type** field, select **Imported**.
11. Enter the dates during which this transaction source is **active**.
12. Deselect **Automatic Transaction Numbering**.
13. Select **Allow duplicate transaction numbers**.
14. In the **Standard Transaction Type** field, select the transaction type defined for invoices.
15. In **Reference Field Default Value**, select **interface\_header\_attribute1**.
16. In the **Grouping Rule** field, select a value for importing Credit Memo.
17. Click **Save**, click **Close**, and then click **Done**.



**Note:**

You should create one transaction source for each property defined in OPERA and each one must be added to the relevant Oracle Integration Cloud lookup.

**Creating Value Sets for Invoice Context and Flex Fields**

1. Log in to Oracle Fusion Accounts Receivables Cloud with a valid username and password.
2. Select **Others** and then select **Setup and Maintenance**.
3. Select the **Financials** offering from the **Setup** drop down list.
4. Select the **Financial Reporting Structures** in the Functional Area list.
5. In **Search Tasks**, search for “Manage Chart of Accounts Value Sets.”
6. In **Manage Chart of Accounts Value Sets**, click (+) create.
7. Enter the values for the following fields:**Value Set Code, Module, Validation Type, Value Data Type, Value Subtype, and Maximum Length.**
8. Click **Save** and then click **Close**.
9. Repeat steps 4 through 6 for all entries mentioned in the below table.

**Table 4-2 Fields**

VALUE SET CODE	DESCRIPTI ON	MODULE	VALIDATIO N TYPE	VALUE DATA TYPE	VALUE SUBTYPE	MAXIMUM LENGTH
Hotel Code Value Set	Hotel Code Value Set	General Ledger	Format Only	Character	Text	20
Invoice Number Value Set	Invoice Number Value Set	General Ledger	Format Only	Character	Text	20
Confirmation Number Value Set	Confirmation Number Value Set	General Ledger	Format Only	Character	Text	20
Guest Name Value Set	Guest Name Value Set	General Ledger	Format Only	Character	Text	20
Arrival Date Value Set	Arrival Date Value Set	General Ledger	Format Only	Character	Text	20
Departure Date Value Set	Departure Date Value Set	General Ledger	Format Only	Character	Text	20
Reservation ID Value Set	Reservation ID Value Set	General Ledger	Format Only	Character	Text	20
Folio Window Number Value Set	Folio Window Number Value Set	General Ledger	Format Only	Character	Text	20
Check Status Value Set	Check Status Value Set	General Ledger	Format Only	Character	Text	20

### Creating Invoice Context and Flex Fields

1. Log in to Oracle Fusion Accounts Receivables Cloud with a valid username and password.
2. Select Others and then select Setup and Maintenance.
3. Select the **Financials** offering from the **Setup** drop down list.
4. Select **Receivables** in the Functional Area list.
5. In Search Tasks, search for **Manage Receivables Descriptive Flex Fields**.
6. Select **Manage Receivables Descriptive Flex Fields** in the search results and click **Manage Receivables Descriptive Flex Fields**.
7. Navigate to Search and Line Transactions. Select **Line Transactions** and click **Edit**.
8. On the Edit Descriptive Flex Field page, click **Manage Contexts**.
9. On the Manage Contexts page, click the **Create (+)** icon.
10. On the Create Context page, enter the values for **Display Name** as OPERA\_INVOICE\_CONTEXT. The Context Code API name will auto populate.
11. Select the **Enabled** check box.
12. Click **Save** and then click **Close**.
13. In the **Context Sensitive Segments** section, select the context created **OPERA\_INVOICE\_CONTEXT** from the Context list.
14. Click the **Create** icon.
15. On the **Create Segment** page, enter the values for the segment.
16. Click **Save** and then click **Close**.
17. Repeat steps 13 through 16 for all the context flex fields mentioned in the table below.

**Table 4-3 Context Flex Fields**

NAME	ENABL ED	DATA TYPE	TABLE COLUMN	VALUE SET	PROMPT	DISPLAY TYPE	READ- ONLY
Hotel Code	Yes	Character	INTERFACE_ LINE_ATTRI BUTE1	Hotel Code Value Set	Hotel Code	Text Box	Yes
Invoice Number	Yes	Character	INTERFACE_ LINE_ATTRI BUTE2	Invoice Number Value Set	Invoice Number	Text Box	Yes
Confirmation Number	Yes	Character	INTERFACE_ LINE_ATTRI BUTE3	Confirmation Number Value Set	Confirmation Number	Text Box	Yes
Guest Name	Yes	Character	INTERFACE_ LINE_ATTRI BUTE4	Guest Name Value Set	Guest Name	Text Box	Yes



**Table 4-3 (Cont.) Context Flex Fields**

NAME	ENABL ED	DATA TYPE	TABLE COLUMN	VALUE SET	PROMPT	DISPLAY TYPE	READ- ONLY
Arrival Date	Yes	Characte r	INTERFACE_ LINE_ATTRI BUTE5	Arrival Date Value Set	Arrival Date	Text Box	Yes
Departur e Date	Yes	Characte r	INTERFACE_ LINE_ATTRI BUTE6	Departure Date Value Set	Departur e Date	Text Box	Yes
Reservati on ID	Yes	Characte r	INTERFACE_ LINE_ATTRI BUTE7	Reservatio n ID Value Set	Reservati on ID	Text Box	Yes
Folio Window Number	Yes	Characte r	INTERFACE_ LINE_ATTRI BUTE8	Folio Window Number Value Set	Folio Window Number	Text Box	Yes
Check Status	Yes	Characte r	INTERFACE_ LINE_ATTRI BUTE9	Check Status Value Set	Check Status	Text Box	Yes

### Enabling Flex Fields

To enable flex fields, you must validate and deploy them.

1. Log in to Oracle Fusion Accounts Receivables Cloud using a valid username and password.
2. Select **Others** and then select **Setup and Maintenance**.
  - a. Select the **Financials** offering from the **Setup** drop-down list.
  - b. Select **Receivables** in the Functional Area list.
3. In Search Tasks, search for 'Manage Receivables Descriptive Flexfields.'
4. Click **Manage Receivables Descriptive Flexfields** in the search results.
5. Click **Manage Receivables Descriptive Flexfields**.
6. Search for 'Line Transactions.'
7. With Line Transactions selected, click **Actions** and then click **Validate Flexfield**.
8. With Line Transactions selected, click **Actions** and then click **Deploy Flexfield**.

### Creating Attachment Categories

1. Log in to the Oracle Fusion Accounts Receivables Cloud using a valid username and password.
2. Select **Others** and then select **Setup and Maintenance**.
  - a. Click the **Setup** drop-down list and select the **Financials** offering.
3. Click the **Tasks** button.
4. Click the **Search** link.
5. In the Search Tasks, search for **Manage Attachment Categories**.

6. Click **(L) Manage Attachment Categories**.
7. On the Manage Attachment Categories page, click **Create (+)**.
8. Enter the following values:
  - a. **Category Name:** OPERA\_TRX
  - b. **User Name:** OPERA Transaction
  - c. **Module:** Transactions (FinArTransactionsMain)
  - d. **Description:** OPERA Transaction
9. In the Attachment Entities section, click **Create (+)**.
10. Search for and add the following Entities.
  - a. **Entity Name:** RA\_CUSTOMER\_TRX\_ALL
  - b. **Entity Name:** RA\_CUSTOMER\_TRX\_LINES\_ALL
11. Click **Save and Close**.

### Importing BIP Reports

1. Log in to the Oracle BI Analytics (OTBI) Cloud with a valid username and password.
2. Navigate to the **Catalog** menu item.
3. In the **Folders** pane, select **Shared Folders**.
4. Click **Expand** under the **Custom** folder.
5. In the **Tasks** pane, click **Unarchive**.
6. Click **Browse** in the **Unarchive** window and select the downloaded Catalog file.
7. Set the following values:
  - **Replace:** None
  - **ACL:** Inherit
8. Click **OK**.



#### Note:

To access and download the Catalog file, refer to the [ERP Reports Catalog](#) (Doc ID 2923690.1) MOS article and download the attached OFAR\_OPERA\_PMS\_BA.catalog file.

### Creating ESS jobs

1. Log in to Oracle Fusion Accounts Receivables Cloud with a valid username and password.
2. Select **Others** and then select **Setup and Maintenance**.
3. Select the **Financials** offering from the **Setup** drop down list.
4. In **Search Tasks**, search for Manage Enterprise Scheduler Job Definitions and Job Sets for Financial, Supply Chain Management, and Related Applications.

5. Click **Manage Enterprise Scheduler Job Definitions Job Sets for Financial, Supply Chain Management, and Related Applications**.
6. Under **Manage Job Definitions**, click the + plus icon to create a new job.
7. Create a Job Definition using the table below as reference.

**Table 4-4 Job Definition**

DISPLAY NAME	NAME	PATH	JOB APPLICATION NAME	JOB TYPE	DEFAULT OUTPUT FORMAT	REPORT ID
BIP Report to Create Customer Profile	Cust_Sync_CreateCustomerProfile	/ Cust_Sync_Accelerator/Create_Customer_Profile/	FscmEss	BIPJobType	XML	Custom/OFAR_OPERATOR/PMS_BA/CREATE_COMPANY_PROFILE_REPORT.xdo

8. Under Parameters, click the + plus icon to create a new parameter.

**Table 4-5 Parameters**

SEQUENCE	PARAMETER PROMPT	DATA TYPE	PAGE ELEMENT	REQUIRED
1	P_BATCH_ID	String	Text Box	Yes
2	P_ORIG_SYSTEM	String	Text Box	Yes
3	P_LAST_RUN_DATE	String	Text Box	Yes

9. Use the up arrow button and down arrow button to ensure the sequence is maintained.
10. Click **Save** and then click **Close**.
11. Repeat step 4 for the following jobs:



**Note:**

Ensure the Display Name, Path, and the sequence of parameters is maintained per the document.

**Table 4-6 Job Definition**

DISPLAY NAME	NAME	PATH	JOB APPLICATION NAME	JOB TYPE	DEFAULT OUTPUT FORMAT	REPORT ID
BIP Report to Create AR Address	Cust_Sync_CreateARAddress	/ Cust_Sync_Accelerator/ Create_Customer_AR_Address/	FscmEss	BIPJobType	XML	Custom/ OFAR_OPERA_PMS_BA/ CREATE_AR_ADDRESSES_REPORT.xdo
BIP Report to Extract Customer Balance and Credit Status	OPERA_Invoice_Processing_Credit_Update_Pr	/ OPERA_Invoice_Processing_Accelerator/ Credit_Update/	FscmEss	BIPJobType	XML	Custom/ OFAR_OPERA_PMS_BA/ CUSTOMER_CREDIT_STATUS_REPORT.xdo

**Table 4-7 Parameters**

SEQUENCE	PARAMETER PROMPT	DATA TYPE	PAGE ELEMENT	REQUIRED
1	P_BATCH_ID	String	Text Box	Yes
2	P_ORIG_SYSTEM	String	Text Box	Yes

**Table 4-8 Job Definition**

DISPLAY NAME	NAME	PATH	JOB APPLICATION NAME	JOB TYPE	DEFAULT OUTPUT FORMAT	REPORT ID	ALLOW MULTIPLE PENDING SUBMISSIONS
BIP Report to Create Invoice Attachment	Inv_Attachment_Create	/ OPERA_Invoice_Accelerator/ Invoice_Attachment/	FscmEss	BIPJobType	XML	Custom/ OFAR_OPERA_PMS_BA/	False

**Table 4-9 Parameters**

SEQUENCE	PARAMETER PROMPT	DATA TYPE	PAGE ELEMENT	REQUIRED
1	P_BATCH_ID	String	Text Box	Yes
2	P_TRX_SRC	String	Text Box	Yes
3	P_LAST_RUN_DATE	String	Text Box	Yes

**Table 4-10 Job Definition**

DISPLAY NAME	NAME	PATH	JOB APPLICATION NAME	JOB TYPE	DEFAULT OUTPUT FORMAT	REPORT ID
BIP Report to Create Customer Account	Cust_Sync_CreateCustomerAccount	/ Cust_Sync_Accelerator/Create_Customer_Account/	FscmEss	BIPJobType	XML	Custom/OFAR_OPERA_PMS_BA/CREATE_ACCOUNT_REPORT.xdo

**Table 4-11 Parameters**

SEQUENCE	PARAMETER PROMPT	DATA TYPE	PAGE ELEMENT	REQUIRED
1	P_BATCH_ID	String	Text Box	Yes
2	P_ORIG_SYSTEM	String	Text Box	No
3	P_LAST_RUN_DATE	String	Text Box	Yes

**Table 4-12 Job Definition**

DISPLAY NAME	NAME	PATH	JOB APPLICATION NAME	JOB TYPE	DEFAULT OUTPUT FORMAT	REPORT ID
BIP Report to Update AR Address	Cust_Sync_UpdateARAddress	/ Cust_Sync_Accelerator/Update_Customer_AR_Address/	FscmEss	BIPJobType	XML	Custom/OFAR_OPERA_PMS_BA/UPDATE_AR_ADDRESS_REPORT.xdo

**Table 4-13 Parameters**

SEQUENCE	PARAMETER PROMPT	DATA TYPE	PAGE ELEMENT	REQUIRED
1	P_BATCH_ID	String	Text Box	Yes
2	P_ORIG_SYSTEM	String	Text Box	No
3	P_LAST_RUN_DATE	String	Text Box	Yes

**Table 4-14 Job Definition**

DISPLAY NAME	NAME	PATH	JOB APPLICATION NAME	JOB TYPE	DEFAULT OUTPUT FORMAT	REPORT ID
BIP Report to Update Customer Account	Cust_Sync_Update_Customer_Account	/ Cust_Sync_Accelerator/Update_Customer_Account/	FscmEss	BIPJobType	XML	Custom/OFAR_OPERATOR/UPDATE_ACCOUNT_REPORT.xdo

**Table 4-15 Parameters**

SEQUENCE	PARAMETER PROMPT	DATA TYPE	PAGE ELEMENT	REQUIRED
1	P_BATCH_ID	String	Text Box	Yes
2	P_ORIG_SYSTEM	String	Text Box	No
3	P_LAST_RUN_DATE	String	Text Box	Yes

**Table 4-16 Job Definition**

DISPLAY NAME	NAME	PATH	JOB APPLICATION NAME	JOB TYPE	DEFAULT OUTPUT FORMAT	REPORT ID
BIP Report to Sync Customer Contact	Cust_Sync_Customer_Contact	/ Cust_Sync_Accelerator/Customer_Contact_Sync/	FscmEss	BIPJobType	XML	Custom/OFAR_OPERATOR/COMMUNICATION_CONTACT_DATA_REPORT.xdo

**Table 4-17 Parameters**

SEQUENCE	PARAMETER PROMPT	DATA TYPE	PAGE ELEMENT	REQUIRED
1	P_BATCH_ID	String	Text Box	Yes
2	P_ORIG_SYSTEM	String	Text Box	No
3	P_LAST_RUN_DATE	String	Text Box	Yes

**Table 4-18 Job Definition**

DISPLAY NAME	NAME	PATH	JOB APPLICATION NAME	JOB TYPE	DEFAULT OUTPUT FORMAT	REPORT ID
BIP Report to Extract Customer Balance and Credit Status	OPERA_Invoice _Processing_Cr edit_UPD_Acco untBalance	/ OPERA_In voice_Pro cessing_A ccelerator / Credit_Up date/	FscmEss	BIPJobType	XML	Custom/ OFAR_OPER A_PMS_BA / CUSTOMER _CREDIT_ST ATUS_REPO RT.xdo

**Table 4-19 Parameters**

SEQUENCE	PARAMETER PROMPT	DATA TYPE	PAGE ELEMENT	REQUIRED
1	P_BATCH_ID	String	Text Box	Yes
2	P_ORIG_SYSTEM	String	Text Box	Yes

**Table 4-20 Job Definition**

DISPLA Y NAME	NAME	PATH	JOB APPLICATION NAME	JOB TYPE	DEFAULT OUTPUT FORMAT	REPORT ID	ALLOW MULTIPLE PENDING SUBMISSIONS
BIP Report to Create Invoice Attachm ent	INV_ATTCHM NT_CREATEA TTCHMNT	/ OPERA_I NVOICE _ATTAC HMENT _ACCEL ERATOR / INVOICE _ATTAC HMENT/	FSCMESS	BIPJOBTY PE	XML	CUSTOM/ OFAR_OP ERA_PMS _BA /	True

**Table 4-21 Job Definition**

DISPLA Y NAME	NAME	PATH	JOB APPLICATI ON NAME	JOB TYPE	DEFAUL T OUTPUT FORMAT	REPORT ID	ALLOW MULTIPL E PENDIN G SUBMIS SIONS
BIP Report to Create Invoice Checks	Inv_Chk_Cre ateCheck	/ OPERA_ Invoice _Check_ Acceler ator/ Invoice _Checks /	FscmEss	BIPJobTy pe	XML	CUSTOM/ OFAR_OP ERA_PMS _BA/ INVOICE _WITHO UT_CHEC KS_REPO RT.xdo	False

**Table 4-22 Parameters**

SEQUENCE	PARAMETER PROMPT	DATA TYPE	PAGE ELEMENT	REQUIRED
1	P_BATCH_ID	String	Text Box	Yes
2	P_TRX_SRC	String	Text Box	Yes
3	P_CAT_NAME	String	Text Box	Yes
4	P_INVOICE_CONTEXT	String	Text Box	No



**Note:**

The following additional ESS jobs, which are predefined in Fusion, are used as part of this Accelerator:

- Process Receivables Transactions for Customer Account Summaries
- Refresh Receivables Transactions for Customer Account Summaries

## Configuring OPERA Cloud

### Prerequisites

- OPERA Profile Sharing must be **Active**
- Accounts Receivable group: Accounts Receivable Control must be **Inactive**



**Note:**

The AR Control must be **Active** during configuration of Restriction Reasons.



The configuration process for the OPERA Property Management System consists of prerequisites for OPERA Controls as well as configuration for Restriction Reasons, Communication Types, and AR Invoice Export.

### Restriction Reasons

In OPERA Controls, under the **Profile** Group, **Restriction/Flagged Reasons** must be **Active**.

The following Restricted Reasons must be configured by selecting **Administration**, **Financial**, **Accounts Receivables Management**, and **Restricted Reasons**.

**Table 4-23 Restriction Reason Codes**

Code	Description
ACCOUNTINACTIVE	Account end date
SITEINACTIVE	No valid site exists for this account
OVERLIMIT	Account Over Limit

Once Restriction Reasons have been configured, the Accounts Receivable Control must be set to **Inactive**.

### Communication Types

The following Communication Types must be configured by selecting **Administration**, **Client Relations**, **Profile Management**, and **Communication Types**.

**Table 4-24 Communication Type Roles**

Role	Type	Description
PHONE	AR PHONE	AR Phone Number
EMAIL	AR EMAIL	AR Email Address
FAX	AR FAX	AR Fax Number

### External System

A new External System must be configured by selecting **Administration**, **Interfaces**, **Business Events**, and **External Systems**.

**Table 4-25 External System Codes**

Code	Description	Sequence
ERPARI	ERPARI	99

### External Database

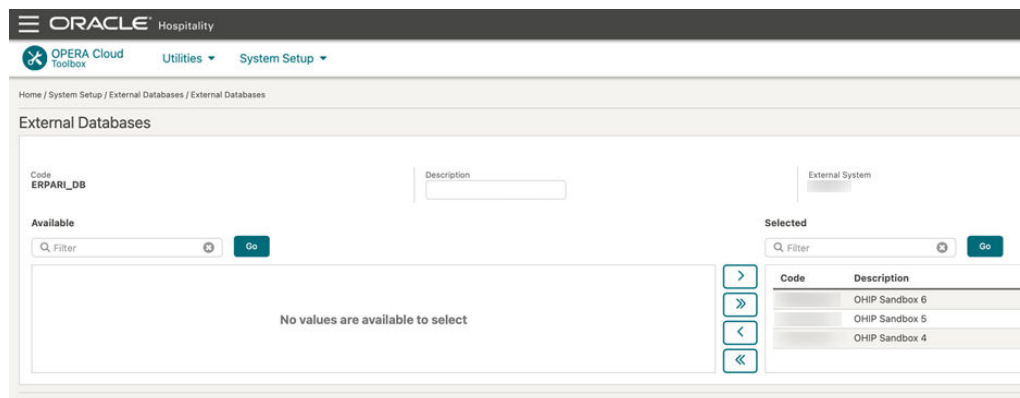
An External Database must be created if one does not already exist. From the **Toolbox**, select **System Setup** and then select **External Databases**. If ERPARI\_DB does not exist, then add the following:

**Table 4-26 External Database Codes**

Code	Description	External System	Available
ERPARI_DB	ERPARI	Select ERPAR	Select the applicable properties

If the ERPARI\_DB exists, then add the applicable properties to the existing record.

**Figure 4-1 External Databases Screen**



**Note:**

For this External Database to be set up, you must be logged in as Chain Administrator. If you do not have this role, contact your chain administrator to have this configuration completed.

**AR Invoice Export**

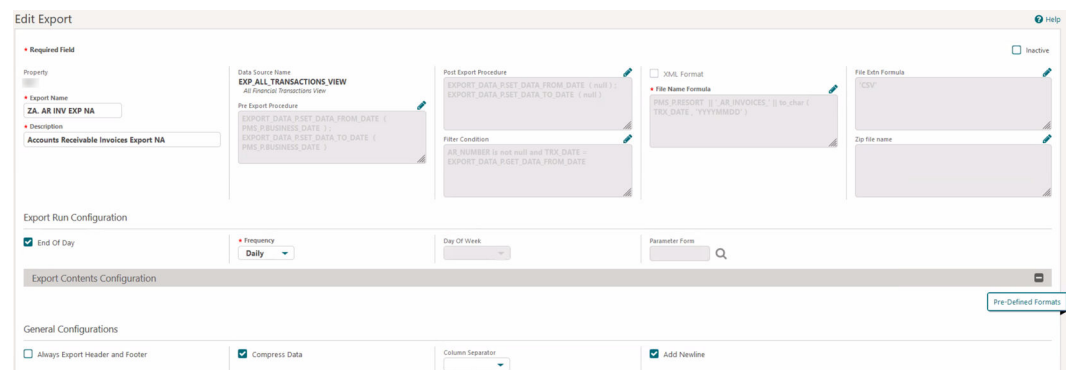
A new export must be created to send AR invoices to Fusion Accounts Receivable from OPERA. Prior to configuration, you must obtain the static value for Payment Due Days from the property (for example, 30).

To create the export

1. Select **Miscellaneous, Exports, and General**. Create the export by clicking **NEW**.
2. Complete the following fields for the Header:
  - a. **Export Name:** AR INVOICES EXPORT
  - b. **Description:** AR Invoices Export
  - c. **Data Source:** Select EXP\_ALL\_TRANSACTIONS VIEW
  - d. **Pre Export Procedure:** EXPORT\_DATA\_P.SET\_DATA\_FROM\_DATE ( PMS\_P.BUSINESS\_DATE ) ; EXPORT\_DATA\_P.SET\_DATA\_TO\_DATE ( PMS\_P.BUSINESS\_DATE )
  - e. **Post Export Procedure:** EXPORT\_DATA\_P.SET\_DATA\_FROM\_DATE ( null ) ; EXPORT\_DATA\_P.SET\_DATA\_TO\_DATE ( null )

- f. **File Condition:** AR\_NUMBER is not null and TRX\_DATE = EXPORT\_DATA\_P.GET\_DATA\_FROM\_DATE
- g. **File Name Formula:** '<PROPERTY\_ID>\_ARINVOICES' || to\_char(TRX\_DATE, 'YYYYMMDD')
- h. **File Extn Formula:** 'CSV'

**Figure 4-2 Edit Export Screen**



3. Create the Header Columns and Data Columns in the General Configurations section.
4. Ensure you always have the **Export Header** and **Footer** deselected.

All Headers will be static fields. Commas must be added between each header.

### HEADERS

- HOTEL CODE
- TRANSACTION TYPE
- PAYMENT DUE DAYS
- TRANSACTION DATE
- AR ACCOUNT NUMBER
- TRANSACTION NUMBER
- LINE
- CURRENCY CODE
- CURRENCY CONVERSION TYPE
- GROSS AMOUNT
- CONF NUMBER
- ARRIVAL
- DEPARTURE
- GUEST NAME
- RESERVATION ID
- WINDOW NUMBER

**Figure 4-3 Column Configurations**

Header	HOTEL_CODE	TRANSACTION_TYPE	PAYMENT_DUE_DAYS	TRANSACTION_DATE	AR_ACCOUNT_NUMBER	TRANSACTION_NUMBER	LINE	CURRENCY_CODE	CURRENCY_CONVERSION_TYPE	GROSS_AMOUNT	
Data	RESORT	decode ( sign ( AR_LED_DEBIT ) , '1' , 'INVOICE' , 'CREDIT MEMO' )	decode ( sign ( AR_LED_DEBIT ) , '1' , '30' , null )	TRX_DATE	AR_NUMBER	INVOICE_NO	LINE	CURRENCY	Corporate	AR_LED_DEBIT	CONF
Footer	<div style="text-align: center;"> <input type="button" value="Add Before"/> <input type="button" value="Add"/> <input type="button" value="Delete"/> <input type="button" value="Reorder"/> </div>										

### DATA COLUMNS

The DATA columns have both Database Columns pulling fields as well as Static Columns.

- RESORT: DATABASE COLUMN
- ; (comma) FORMULA COLUMN (STATIC FIELD)
- TRANSACTION TYPE: decode(sign(AR\_LED\_DEBIT),'1','INVOICE','CREDIT MEMO')

```
decode ( sign ( AR_LED_DEBIT ) , '1' , 'INVOICE' , 'CREDIT MEMO' )
```

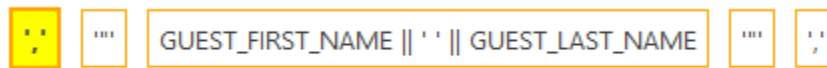
- ; (comma) FORMULA COLUMN (STATIC FIELD)
- PAYMENT DUE DAYS: decode(sign(AR\_LED\_DEBIT),'1','30',null) note this is based on property decision.

```
decode ( sign ( AR_LED_DEBIT ) , '1' , '30' , null )
```

- ; (comma) FORMULA COLUMN (STATIC FIELD)
- TRX\_DATE: DATABASE COLUMN - Column Format YYYY-MM-DD
- ; (comma) FORMULA COLUMN (STATIC FIELD)
- AR\_NUMBER: DATABASE COLUMN
- ; (comma) FORMULA COLUMN (STATIC FIELD)
- INVOICE\_NO: DATABASE COLUMN
- ; (comma) FORMULA COLUMN (STATIC FIELD)
- LINE: FORMULA COLUMN (STATIC FIELD)
- ; (comma) FORMULA COLUMN (STATIC FIELD)
- CURRENCY: DATABASE COLUMN
- ; (comma) FORMULA COLUMN (STATIC FIELD)
- Corporate: FORMULA COLUMN (STATIC FIELD)

- ; (comma) FORMULA COLUMN (STATIC FIELD)
- AR\_LED\_DEBIT: DATABASE COLUMN
- ; (comma) FORMULA COLUMN (STATIC FIELD)
- CONFIRMATION\_NO: DATABASE COLUMN
- ; (comma) FORMULA COLUMN (STATIC FIELD)
- ARRIVAL\_DATE: DATABASE COLUMN
- ; (comma) FORMULA COLUMN (STATIC FIELD)
- DEPARTURE\_DATE: DATABASE COLUMN
- ; (comma) FORMULA COLUMN (STATIC FIELD)
- " (double quote) FORMULA COLUMN (STATIC FIELD)
- GUEST NAME: GUEST\_FIRST\_NAME || ' ' || GUEST\_LAST\_NAME Column length 30 (flex fields in Fusion limited to 30 characters)
- " (double quote) FORMULA COLUMN (STATIC FIELD)
- ; (comma) FORMULA COLUMN (STATIC FIELD)

**Figure 4-4 Formula**



**Figure 4-5 Column Fields**



- RESV\_NAME\_ID: DATABASE COLUMN
  - ; (comma) FORMULA COLUMN (STATIC FIELD)
  - FOLIO\_VIEW: DATABASE COLUMN
5. Add the **Date Parameter** to test the file and then set to **End of Day/Daily** to run it during the night audit.

## Configuring Oracle Integration Cloud

### Prerequisites for File Server Configuration

The following prerequisites are required for the file server configuration:

- A file server must be activated before updating the Oracle Integration Cloud connections.
- You could choose to activate the File Server of Oracle Integration Cloud instance where the accelerator is deployed or you could choose to use one of your own. If you choose to

use Oracle Integration Cloud File server, follow the [Oracle Integration Cloud documentation](#) to enable and configure the file server.

- Once a File Server is activated, all the relevant folder structures mentioned across various OIC lookups in this guide should be created and user access configured before updating the Oracle Integration Cloud connections.
- If you choose to create a different folder structure than those in the lookups, then the lookups should also be updated accordingly.
- You must grant file server access to users who do the following:
  - OPERA users who place files in folders.
  - OIC users who fetch files from these folders.

## Configurations for Integration Cloud Connections

### Oracle OPERA Cloud Connection

1. Add the Connection URL of OHIP instance.
2. For the Security Policy of type “OAuth Custom Two Legged Flow,” update the following parameters.

 **Note:**

Refer to the respective tables for more details of the inputs.

- a. “Access Token Request“: `-X POST -H "Content-Type: application/x-www-form-urlencoded" -H "x-app-key: {x-app-key}" -H "Authorization: Basic {BASE64 ENCODED CLIENT-ID:CLIENT_SECRET}" -d "username={URLENCODED_USERNAME}&password={URLENCODED_PASSWORD}&grant_type=password" "{HOST}/oauth/v1/tokens"`
- b. “access\_token\_usage“: `-H Authorization: ${token_type} ${access_token} -H x-app-key: {x-app-key}`

**Table 4-27 Elements**

Element	Description
X-APP-KEY	The X-APP-KEY specific from your OHIP instance.
BASE64 ENCODED <CLIENT-ID:CLIENT_SECRET >	The base64 encoded format of the client ID and client secret specific to the OHIP user.
URLENCODED_USERNAME	The integration user for the OHIP instance.
URLENCODED_PASSWORD	The Password for the OHIP integration user.
HOST	The host URL of the OHIP instance.

**Oracle Cloud ERP Integration Connection**

1. Update the ERP Integration Host with the Oracle Fusion Accounts Receivables instance hostname.
2. Configure the Security to specify the access credentials to Oracle Fusion Accounts Receivables. Use the Fusion Cloud / ERP User. (This is the first user created in the 'Create Integration Service Users in Source and Target Systems' topic.)
  - a. For GEN3, use "OAuth Client Credentials" as a security and service console URL for the Rest API Base URL.

**Oracle REST OIC API Connection**

1. Update the Oracle Integration Cloud instance host in the Connection URL.
2. Configure the Security to specify the access credentials to Oracle Integration Cloud. Use the Integration Developer user. (This is the third user created in the 'Create Integration Service Users in Source and Target Systems' topic.)

**Oracle File Server Connection**

1. Update the connection properties with the File Server Host Address Port and chose the **SFTP Connection** option.
2. Configure the Security to specify the access credentials to the File server. Use the File Server User. (This is the fourth user from the 'Create Integration Service Users in Source and Target Systems' topic.)
  - a. For GEN3, use "FTP Public Key Authentication" as the Security.

## Lookup Table Configurations

- Fields marked with an asterisk (\*) must be validated/updated per configurations in the OPERA and ERP environments.
- All timestamp values must be in the (YYYY-MM-DD HH:MM:SS) format in UTC Time of the Oracle Fusion Accounts Receivables system.

## ORACLE-BRT-ERP\_Configuration

Update the Description column in the lookup for the corresponding Name column fields.

**Table 4-28 Name Column Fields**

Name	Description (with examples)
BIPREPORTJOBNAME_CREATECOMPANY_PROFILE	The ESS Job name for the Update Customer Account Report as configured on the Oracle Fusion Accounts Receivables instance. Example: Cust_Sync_UpdateCustomerAccount Do Not modify this value unless the Fusion BIP report is changed.

**Table 4-28 (Cont.) Name Column Fields**

<b>Name</b>	<b>Description (with examples)</b>
BIPReportJobPath_Cr eateCompanyProfile	The ESS Job path for the Create Company Profile Report as configured on the Oracle Fusion Accounts Receivables instance. Ensure there is no leading '/' at the end of the path. Example: /oracle/apps/ess/custom/Cust_Sync_Accelerator/ Create_Customer_Profile Do Not modify this value unless the Fusion BIP report is changed.
BIPREPORTJOBNAM E_CREATEARADDRES S	The ESS Job path for the Update Customer Account Report as configured on the Oracle Fusion Accounts Receivables instance. Ensure there is no leading '/' at the end of the path. Example: /oracle/apps/ess/custom/Cust_Sync_Accelerator/ Update_Customer_Account Do Not modify this value unless the Fusion BIP report is changed.
BIPReportJobPath_Cr eateARAddress	The ESS Job path for the Create AR Address Report as configured on the Oracle Fusion Accounts Receivables instance. Ensure there is no leading '/' at the end of the path. Example: /oracle/apps/ess/custom/Cust_Sync_Accelerator/ Create_Customer_AR_Address Do Not modify this value unless the Fusion BIP report is changed.
BIPReportJobName_ CreateAccount	The ESS Job name for the Create Customer Account Report as configured on the Oracle Fusion Accounts Receivables instance. Example: Cust_Sync_CreateCustomerAccount Do Not modify this value unless the Fusion BIP report is changed.
BIPReportJobPath_Cr eateAccount	The ESS Job path for the Create Customer Account Report as configured on the Oracle Fusion Accounts Receivables instance. Ensure there is no leading '/' at the end of the path. Example: /oracle/apps/ess/custom/Cust_Sync_Accelerator/ Create_Customer_Account Do Not modify this value unless the Fusion BIP report is changed.
BIPReportJobName_ UpdateARAddress	The ESS Job name for the Update AR Address Report as configured on the Oracle Fusion Accounts Receivables instance. Example: Cust_Sync_UpdateARAddress Do Not modify this value unless the Fusion BIP report is changed.
BIPReportJobPath_U pdateARAddress	The ESS Job path for the Update AR Address Report as configured on the Oracle Fusion Accounts Receivables instance. Ensure there is no leading '/' at the end of the path. Example: /oracle/apps/ess/custom/Cust_Sync_Accelerator/ Update_Customer_AR_Address Do Not modify this value unless the Fusion BIP report is changed.
BIPReportJobName_ UpdateAccount	The ESS Job name for the Update Customer Account Report as configured on the Oracle Fusion Accounts Receivables instance. Example: Cust_Sync_UpdateCustomerAccount Do Not modify this value unless the Fusion BIP report is changed.



**Table 4-28 (Cont.) Name Column Fields**

<b>Name</b>	<b>Description (with examples)</b>
BIPReportJobPath_UpdateAccount	The ESS Job path for the Update Customer Account Report as configured on the Oracle Fusion Accounts Receivables instance. Ensure there is no leading '/' at the end of the path. Example: /oracle/apps/ess/custom/Cust_Sync_Accelerator/Update_Customer_Account Do Not modify this value unless the Fusion BIP report is changed.
BIPReportJobName_SyncCustomerContact	The ESS Job name for the Customer Contact Sync Report as configured on the Oracle Fusion Accounts Receivables instance. Example: Cust_Sync_CustomerContactSync Do Not modify this value unless the Fusion BIP report is changed.
BIPReportJobPath_SyncCustomerContact	The ESS Job path for the Customer Contact Sync Report as configured on the Oracle Fusion Accounts Receivables instance. Ensure there is no leading '/' at the end of the path. Example: /oracle/apps/ess/custom/Cust_Sync_Accelerator/Customer_Contact_Sync Do Not modify this value unless the Fusion BIP report is changed.
OrigSystem*	The Original System code used for writing the Original System Reference in Oracle Fusion Accounts Receivables. Example: ISG_OPERA Update this value based on the configuration in the ERP system.
CONTACT_POINT_TYPE1	The contact point parent type for Phone in the Oracle Fusion Accounts Receivables. Example: PHONE Do Not modify this value.
PHONE_TYPE1	The contact point sub-type for Phone in the Oracle Fusion Accounts Receivables. Example: LAND Do Not modify this value.
PHONE_TYPE2	The contact point sub-type for Phone in the Oracle Fusion Accounts Receivables. Example: MOBILE Do Not modify this value.
PHONE_TYPE3	The contact point sub-type for Phone in the Oracle Fusion Accounts Receivables. Example: FAX Do Not modify this value.
CONTACT_POINT_TYPE2	The contact point parent type for Email in the Oracle Fusion Accounts Receivables. Example: EMAIL Do Not modify this value.

## ORACLE-BRT-OPERA\_Configuration

Update the Description column in the lookup for the corresponding Name column fields.

**Table 4-29 Name Column Fields**

Name	Description (with examples)
x-hotelid*	This is an authorization header for OPERA; a Hotel Id that is a part of the OHIP instance being used. Example: HOTEL04 Provide the value as configured in the OPERA system.
phoneType*	The configured type code for communication type phone in OPERA. This code is reserved in OPERA for the Accelerator. Example: AR PHONE Provide the value as configured in the OPERA system per the 'Communication Types' configuration.
faxType*	Configured type code for communication type fax in OPERA. This code is reserved in OPERA for the Accelerator. Example: AR FAX Provide the value as configured in OPERA system per the 'Communication Types' configuration.
emailType*	Configured type code for communication type email in OPERA. This code is reserved in OPERA for the Accelerator. Example: AR EMAIL Provide the value as configured in OPERA system per the 'Communication Types' configuration.
language	Language code for English. Example: E Do Not modify this value.
addressType	Address type code in OPERA. Example: AR ADDRESS Do Not modify this value.
externalSystemCode*	The Oracle Fusion Accounts Receivables external system code as created in the OHIP instance. Example: ERPARI Provide the value as configured in the OPERA system.
ACCOUNTINACTIVE	ACCOUNTINACTIVE* Provide the exact value as configured in OPERA PMS per the 'Restriction Reasons' setup. Restriction code sent in the UPDATE_ACCOUNT report when the account is inactive. Do Not modify this value unless a change is made to the Update Account BIP Report.
SITEINACTIVE	SITE INACTIVE* Provide the exact value as configured in OPERA PMS per the 'Restriction Reasons' setup. Restriction code sent in the UPDATE_ACCOUNT report when the site is inactive. Do Not modify this value unless a change is made to the Update Account BIP Report.
ACCOUNTTYPE	The type for which accounts are created for a customer. Example: ARTEST Provide the value as configured in the OPERA System.

**Table 4-29 (Cont.) Name Column Fields**

Name	Description (with examples)
idContext	The context used in the OHIP APIs. Example: OPERA Do Not modify this value.

## ORACLE-BRT-OPERA\_BU\_Property\_Mapping

- Add the Business Unit identifiers that are in scope for the Accelerator in the “BU” column and the corresponding OPERA Hotel-Ids separated with a semicolon delimiter in the “Property” column.
- No default values should remain. Populate with relevant values from OPERA and ERP to establish the mapping between the ERP Business Units and the OPERA Properties. An example lookup is provided below:

**Table 4-30 Business Units**

BU	Property
300000228499063	HOTEL03; HOTEL04; HOTEL05
300000228499050	HOTEL06

## ORACLE-BRT-CustomerSync\_OIC\_SYSTEM\_Config

Update the Value column in the lookup for the corresponding Name column fields.

**Table 4-31 Name Column Fields**

Name	Value
CurrentScheduleStartTime	This is the current date time of the integration schedule. This column gets updated when the Trigger Synchronization Integration is run. Automatically populated at run time. Example: 2021-11-25 10:55:48 <b>Do Not</b> modify this value.

**Table 4-31 (Cont.) Name Column Fields**

Name	Value
LastSuccessfulRunTime	Date time from which the transactions in ERP must be considered until the current time to extract the customer, address, account, and contact point updates in the BIP report. Automatically populated at run time. Example: 2021-11-25 10:55:48



**Note:**

This value reflects the Schedule parameter of the integration Oracle ERP OPERA Trigger Synchronization and can be used as a backup to get the last successful run time of the Customer Synchronization functionality.

**Do Not** modify this value. To do an ad-hoc run with a custom time, use the schedule parameter in the integration - Oracle ERP OPERA Trigger Synchronization.

## ORACLE-BRT-Error Notification Configuration

Update the Value column in the lookup for the corresponding Name column fields.

**Table 4-32 Name Column Fields**

Name	Description (with examples)
EmailIDs*	Comma delimited values of email IDs to receive the error email notification from the Accelerator Example: firstname.lastname@oracle.com, firstname.lastname@oracle.com Provide valid email IDs.
Customer_FTPDirectory*	The FTP file server directory to store the error logs of Customer Sync. Example: <base_directory>/ERPIntegrationlogs/CustomerSync/ Provide the full path per requirement.
Job_retry_count	This value is used by the Monitor ESS Job Status integration. This value is used in the loop count to decide how many times the loop should run to check for the ESS job execution status of BIP reports of Customer sync functionality. This takes values from 1 to 20, if it is not in the mentioned range, it is set to default value 20. Example: 15 Provide the value per requirement.
CustomerSync_Trigger_Id	For Gen3 only: The ID of the integration to be called for trigger customer synchronization. Example: ORCL-BA-ERP_OPERA_TRIGG_SYNC 01.00.0000 Provide a version for the Integration ID.

## ORACLE-BRT-InvoiceSync\_OIC\_Configuration

Update the Value column in the lookup for the corresponding Name column fields.

**Table 4-33 Name Column Fields**

Name	Value
Invoice_ERPImportFailure_FTPDirectory	Path for the directory in the FTP server to store the error logs captured during the ERP invoice import. Example: <base_directory>/ERPIntegrationlogs/ERPIntegrationlogs/InvoiceSync/InvoiceImportFailure/ Provide the full path per requirement.
CreditStatus_FTPDirectory	Path for the directory in the FTP server to store the error logs captured during the Credit status update Example: <base_directory>/ERPIntegrationlogs/CreditStatusSync/ Provide the full path per requirement.
Invoice_ERPPostImportStatus_FTPDirectory	Path for the directory in the FTP server to store the error logs captured post ERP invoice import. Example: <base_directory>/ERPIntegrationlogs/InvoiceSync/ERPFailureAndRejectionReport/ Provide the full path per requirement.
Invoice_Unprocessed_FTPDirectory	Path for the directory in the FTP server to pick the new invoices to be imported to ERP. Example: <base_directory>/OPERA/Invoices/Export/ Provide the full path per requirement.
Invoice_Processed_FTPDirectory	Path for the directory in the FTP server to move the invoices that are uploaded to ERP. Example: <base_directory>/OPERA/Invoices/ProcessedExport_Backup/ Provide the full path per requirement.
Invoice_Attachment_FTPDirectory	Path for the directory in the FTP server to store the error logs captured during the invoice attachment upload. Make sure there is a leading '/' at the end of the path. Example: <ftp_user_home_directory>/ERPIntegrationlogs/InvoiceSync/InvoiceAttachmentFailure/ Provide the full path per requirement.

## ORACLE-BRT-InvoiceSync\_ERP\_Configuration

Update the Value column in the lookup for the corresponding Name column fields.

**Table 4-34 Name Column Fields**

Name	Value
Invoice_Transaction LineType	LINE <b>Do Not</b> modify this value.

Table 4-34 (Cont.) Name Column Fields

Name	Value
Invoice_LineTransactionsFlexfieldContext	The value for the flex field context as configured in Fusion AR. Example: OPERA_INVOICE_CONTEXT <b>Do Not</b> modify this value unless you have set a different value in Fusion AR.
Invoice_TaxableFlag	N <b>Do Not</b> modify this value.
Invoice_Properties_ESS_Path	The ESS path used in the invoice import property file. Example: /oracle/apps/ess/financials/receivables/transactions/autoInvoices <b>Do Not</b> modify this value.
Invoice_Properties_ESS_Job	The ESS job name used in the invoice import property file. Example: AutoInvoiceImportEss <b>Do Not</b> modify this value.
Invoice_Properties_FileName	The name of the invoice .csv files uploaded to ERP. Example: ArAutoinvoiceImport <b>Do Not</b> modify this value.
InvAttachment_Type	The value for the invoice/credit memo attachment type as configured in Fusion AR. Example: FILE <b>Do Not</b> modify this value.
InvAttachment_UploadedFileType	The value for the invoice/credit memo attachment file content type that is uploaded to Fusion AR. Example: PDF <b>Do Not</b> modify this value unless a different file format is used.
InvAttachment_FileNamePrefix	The value for the prefix to be used for the invoice/credit memo attachment file name. Example: OPERA <b>Do Not</b> modify this value unless a different file name prefix is required.
InvAttachment_CategoryName	The value for the file name prefix to be used for the invoice/credit memo attachment. Example: OPERA_TRX <b>Do Not</b> modify this value unless a different value is configured in Fusion.

## ORACLE-BRT-InvoiceSync\_OIC\_LastRunTime\_Config

Update the Customer\_Balances\_Value column in the lookup for the corresponding Parameter\_Name column fields.

**Table 4-35 Parameter\_Name Column Fields**

PARAMETER_NAME	CUSTOMER_BALANCES_VALUE
JobParameter_P_LAST_RUN_DATE	The date time from which the transactions in Fusion AR must be considered until the current time to extract the customer balances in the BIP report. Automatically populated at run time. Example: 2021-11-25 10:55:48 (YYYY-MM-DD HH:MM:SS) in UTC

**Note:**

For every first run post implementation, this should be manually updated with the required date time in the above value.

**Do Not** modify this value after the very first run post implementation unless you want to do an ad hoc run of respective integrations.

## ORACLE-BRT-InvoiceSync\_OIC\_StartTime\_Config

Update the Customer\_Balances\_Value column in the lookup for the corresponding Parameter\_Name column fields.

**Table 4-36 Parameter\_Name Column Fields**

PARAMETER_NAME	CUSTOMER_BALANCES_VALUE
JobParameter_P_CURRENT_START_TIME	This is the current date time of the integration schedule. This column is updated when the initiate customer balances ESS Job succeeds. Automatically populated at run time. Example: 2021-11-25 10:55:48 (YYYY-MM-DD HH:MM:SS) in UTC <b>Do Not</b> modify this value.

## ORACLE-BRT-InvoiceSync\_ERP\_Job\_Configuration

Update the rows in the lookup for the corresponding column fields.

Table 4-37 Parameters

PARAMETER_NAME	PROCESS_RECEIVABLES_VALUE	REFRESH_RECEIVABLES_VALUE	CUSTOMER_BALANCES_VALUE
Job_Set_Display_Name	The ESS Job display name for the Process Receivables as configured on Oracle Fusion Accounts Receivables instance. <b>Do Not</b> modify this value.	The ESS Job display name for the Refresh Receivables as configured on Oracle Fusion Accounts Receivables instance. <b>Do Not</b> modify this value.	The ESS Job display name for the Customer Balances as configured on Oracle Fusion Accounts Receivables instance. <b>Do Not</b> modify this value.
ESS_Job_Path	The ESS Job path for the Process Receivables as configured on Oracle Fusion Accounts Receivables instance. <b>Do Not</b> modify this value.	The ESS Job path for the Refresh Receivables as configured on Oracle Fusion Accounts Receivables instance. <b>Do Not</b> modify this value.	The ESS Job path for the Customer Balances as configured on Oracle Fusion Accounts Receivables instance. <b>Do Not</b> modify this value.
Job_Set_Name	The ESS Job name for the Process Receivables as configured on Oracle Fusion Accounts Receivables instance. <b>Do Not</b> modify this value.	The ESS Job name for the Refresh Receivables as configured on Oracle Fusion Accounts Receivables instance. <b>Do Not</b> modify this value.	The ESS Jobname for the Customer Balances as configured on Oracle Fusion Accounts Receivables instance. <b>Do Not</b> modify this value.
Callback_Integration_Code	This is the value of the refresh receivables integration code. This value is used to call the refresh receivables callback integration on success of the process receivables ESS job. <b>Do Not</b> modify this value.	This is the value of the customer balances integration code. This value is used to call the initiate customer balances callback integration on success of the refresh receivables ESS job. <b>Do Not</b> modify this value.	No callback integration is called so it is set to NULL. <b>Do Not</b> modify this value



Table 4-37 (Cont.) Parameters

PARAMETER_NAME	PROCESS_RECEIVABLES_VALUE	REFRESH_RECEIVABLES_VALUE	CUSTOMER_BALANCES_VALUE
Callback_Integration_Version	This is the value of the refresh receivables integration version. This value is used to call the callback integration on success of the process receivables ESS job. <b>Do Not</b> modify this value.	This is the value of the customer balances integration version. This value is used to call the initiate customer balances callback integration on success of the refresh receivables ESS job. <b>Do Not</b> modify this value.	No callback integration is called so it is set to NULL. <b>Do Not</b> modify this value.
Job_retry_count	This value is sent as the input parameter for execute ESS job integration. This value is used in the loop to count how many times the loop can iterate for the process receivables ESS job execution. This takes value from 1 to 30. If the value is not in the mentioned range, it is set to default value 10. Example: 10 Provide the value per your requirement.	This value is sent as the input parameter for execute ESS job integration. This value is used in the loop to count how many times the loop can iterate for the refresh receivables ESS job execution. This takes value from 1 to 30. If the value is not in the mentioned range, it is set to default value 10. Example: 10 Provide the value per your requirement.	This value is sent as the input parameter for execute ESS job integration. This value is used in the loop to count how many times the loop can iterate for the customer balances ESS job execution. This takes value from 1 to 30, if it is not in the mentioned range it is set to default value 10. Example: 10 Provide the value per your requirement.
JobParameter_P_ORIG_SYSTEM*			This value is passed as the input parameter for the customer balances ESS job. To be based on Fusion AR Configuration for writing Original System Reference in Oracle Fusion Accounts Receivables. Example: ISG_OPERA

## ORACLE-BRT-InvoiceSync\_HotelID\_Configuration



### Note:

One row must be created for each property which will be the exporting invoices from OPERA Property Management System.

**Table 4-38 Fields**

HOTEL_CODE*	TRANSACTION_BATCHSOURCE*	TRANSACTION_TYPE*	PAYMENT_TERMS*	PAYMENT_TERM_VALUE*	BUSINESS_UNITNAME*	BUSINESS_UNIT_ID*
The OPERA property code which is in scope for invoice sync. Example: HOTEL06 Provide the values as configured in the OPERA system. One row must be created for each property (that is, Hotel ID) which will be exporting Invoices from OPERA Property Management System.	The Transaction batch source configured in Fusion AR for the hotel ID. Example: UK_Imported_Invoice Provide the value as configured in ERP system per the setup 'Creating Transaction Sources.'	The invoice transaction type configured in Fusion AR Example: UK Invoice Provide the value as configured in ERP system.	The Fusion AR payment term string for the hotel code. Example: Net30 Provide the value as configured in ERP system.	The OPERA invoice payment term value used for the hotel code. Example: 30 Provide the value as configured in the OPERA invoice file.	The Fusion AR Business unit name associated with the hotel code Example: London BU Provide the value as configured in ERP system.	The Fusion AR business unit ID for the corresponding business unit name. Example: 30000228499050 Provide the value as configured in ERP system.

## ORACLE-BRT-InvoiceSync\_OPERA\_Configuration

Update the Value column in the lookup for the corresponding Name column fields.

**Table 4-39 Name Column Fields**

Name	Value
<p><b>OVERLIMIT</b></p> <p>This is the flag value received from Fusion AR when an account credit reaches over the limit. This value should be updated in OPERA as a restriction.</p> <p>Do Not modify this value unless the Fusion BIP report is changed.</p>	<p><b>OVERLIMIT</b></p> <p>Provide the exact value as configured in OPERA PMS per the 'Restriction Reasons' setup.</p>
<p><b>OK</b></p> <p>This is the flag value received from Fusion AR when the credit balance is positive.</p> <p>Do Not modify this value unless the Fusion BIP report is changed.</p>	<p><b>OK</b></p> <p><b>Do Not</b> modify this value.</p>
idContext	<p><b>OPERA</b></p> <p><b>Do Not</b> modify this value unless the Fusion BIP report is changed.</p>
Invoice_FileFormatExtension	<p>This is the extension for the invoice file exported by OPERA (case sensitive).</p> <p><b>Do Not</b> modify this value unless the OPERA invoice file extension case is changed.</p>
Invoice_TransactionType	<p>This is the transaction type value for an invoice line used in the OPERA file export.</p> <p>Example: INVOICE</p> <p><b>Do Not</b> modify this value unless the transaction type used for the invoice in the OPERA file export is changed.</p>
CreditMemo_TransactionType	<p>This is the transaction type value for a credit memo line used in the OPERA file export.</p> <p>Example: CREDIT MEMO</p> <p><b>Do Not</b> modify this value unless the transaction type used for the credit memo in the OPERA file export is changed.</p>
InvoiceAttachment_reservationIdContext	<p>The value for reservationId context used in the OPERA attachment API invocation.</p> <p>Example: OPERA</p> <p><b>Do Not</b> modify this value unless the OPERA attachment API requires a different value.</p>
InvoiceAttachment_reservationIdType	<p>The value for the reservationId type used in the OPERA attachment API invocation.</p> <p>Example: Reservation</p> <p><b>Do Not</b> modify this value unless the OPERA attachment API requires a different value.</p>

## Activating Integrations

On completion of all the above configurations, follow the below steps to activate the Accelerator.

Activate the integration flows in the following order (you can optionally enable tracing):

1. Oracle ERP OPERA Generic Error Handler
2. Oracle ERP OPERA Monitor ESS Job Status
3. Oracle ERP OPERA Address Transformation
4. Oracle ERP OPERA Get Property List
5. Oracle ERP OPERA Update AR Address
6. Oracle ERP OPERA Update Account
7. Oracle ERP OPERA Create Company Profile
8. Oracle ERP OPERA Create AR Address
9. Oracle ERP OPERA Create Account
10. Oracle ERP OPERA Sync Customer Contact
11. Oracle ERP OPERA Trigger Synchronization
12. Oracle OPERA ERP Process Invoice Upload
13. Oracle OPERA ERP Invoice Import Status
14. Oracle OPERA ERP Trigger Invoice Upload
15. Oracle OPERA ERP Execute EssJobs
16. Oracle OPERA ERP Initiate Process Receivables
17. Oracle OPERA ERP Initiate Refresh Receivables
18. Oracle OPERA ERP Initiate Customer Balances
19. Oracle ERP OPERA Update Credit Status
20. Oracle OPERA ERP Initiate Invoice Attachments
21. Oracle OPERA ERP Invoice Attachments
22. Oracle OPERA ERP Initiate Invoice Checks
23. Oracle OPERA ERP Invoice Checks

## Scheduling Integrations

After activating all the integrations, follow the below steps to schedule the integrations:

1. Click the actions of the integrations to be scheduled. These actions must be repeated for the integrations below:
  - Oracle ERP OPERA Trigger Synchronization
  - Oracle OPERA ERP Trigger Invoice Upload
  - Oracle OPERA ERP Initiate Process Receivables

2. Click **Schedule** and then click the **Edit Schedule** icon and set the required frequency for the schedule.
3. Click **Save**.
4. Navigate back to the schedule runs page, click **Start Schedule** and click **Confirm**. In case of the integration 'Oracle ERP OPERA Trigger Synchronization,' provide the "New Value" with the present date in the format 2021-10-12 00:00:00.

If an error occurs during invoice attachment upload, you can submit an ad-hoc run using the schedule parameter "SubmitWithInvoiceAttachment" with value "Y" to run the invoice attachment upload for all the transaction batch sources. This is a catch all run to process any invoice attachment upload failures.

5. Click **Start Schedule**.

Now the integrations are set to run on schedule per the configured frequency.

# 5

## Considerations to Customizations of the Business Accelerator

### **Limitations**

This OIC Accelerator uses BI reports to extract primary data from Oracle Fusion Accounts Receivables and a custom report to extract data from OPERA Cloud. Inclusion of additional data elements involves customization to the respective product reports and is outside the scope of this Accelerator. Due to this structure, this Accelerator is not extensible within the Oracle Integration Cloud Business Accelerator framework.

# 6

## Monitoring the Business Accelerator

From a monitoring perspective, each platform has its own monitoring capabilities.

# 7

## Troubleshooting the Business Accelerator

**Table 7-1 Errors and Resolutions**

SEQ	INTEGRATION NAME	ERROR SCENARIO	ERROR MESSAGE	POSSIBLE RESOLUTION
1	Oracle OPERA ERP Execute EssJobs	Status of ESS job is "Unknown" after multiple retries	Status of ESS Job unknown. Review following details and make the necessary fix if required: ESS Job Name: ProcessARTransactionalEventsForSummaryTablesEss   ESS Job Path: / oracle/apps/ess/ financials/ receivables/ shared/	This error most likely occurs if the Fusion environment is slow and the ESS job status has not changed to either SUCCEEDED or ERROR after a long time. The error will be automatically fixed when the Fusion environment starts working normally. Alternatively, the retry counter variable <code>""Job_retry_count""</code> (max value: 20) in the lookup <code>""ORACLE-BRT-InvoiceSync_ERP_Job_Configuration""</code> can be set to a higher value.



Table 7-1 (Cont.) Errors and Resolutions

SEQ	INTEGRATION NAME	ERROR SCENARIO	ERROR MESSAGE	POSSIBLE RESOLUTION
2	Oracle ERP OPERA Generic Error Handler	The FTP server is busy or inaccessible	<p>The JCA Binding Component was unable to establish an outbound JCA CCI connection due to the following issue:</p> <p>Unable to establish a session with the server.</p> <p>Ensure the hostname and port specified to log in to the server are correct.</p> <p>Ensure the JCA connection factory and any dependent connection factories have been configured with a sufficient limit for max connections. Also ensure the physical connection to the backend EIS is available and the backend itself is accepting connections.</p>	<p>This issue can occur intermittently if the FTP server is busy. Check the FTP connection host, port, and login credentials and verify the FTP server is accessible.</p>

Table 7-1 (Cont.) Errors and Resolutions

SEQ	INTEGRATION NAME	ERROR SCENARIO	ERROR MESSAGE	POSSIBLE RESOLUTION
3	Any integration with the internal Integration calls	The Integration is inactive or possibly deleted.	The response status of 503 Service Unavailable from any OIC based endpoints with the message: <OICURL> returned a response status of 503 Service Unavailable. The web server (running the service) is currently unable to handle the HTTP request due to a temporary overloading or maintenance of the server. The implication is this is a temporary condition which will be alleviated after some delay. Furthermore, 503 can sometimes be returned by an intermediary as well. You can trace the cURL representation of the request sent to the target service from the Oracle Integration Cloud server logs. Try invoking the target service using cURL. If the problem persists, contact the target service admin.	This issue is caused when the integration is calling another integration which is either in an inactive state or not present in the OIC instance. Ensure the integration is present in the instance and is in an active state.

Table 7-1 (Cont.) Errors and Resolutions

SEQ	INTEGRATION NAME	ERROR SCENARIO	ERROR MESSAGE	POSSIBLE RESOLUTION
4	Oracle ERP OPERA Create Account	Issue with the Business unit to property mapping lookup	<fault xmlns="http:// www.oracle.com/ 2014/03/ics/ fault"><errorCod e>PROPERTY_NO T_FOUND</ errorCode><reaso n>No property details received from the target integration</ reason><details> Make sure the ERP Business Unit: 300000105578390 to OPERA Property mapping is configured in the lookup</ details></fault>	This error occurs when the lookup <b>ORACLE-BRT- OPERA_BU_Prop erty_Mapping</b> does not have the OPERA property to BU for the BUID received from the ERP request. Please add the BUID and the respective properties mapped to the <b>ORACLE-BRT- OPERA_BU_Prop erty_Mapping</b> lookup.

Table 7-1 (Cont.) Errors and Resolutions

SEQ	INTEGRATION NAME	ERROR SCENARIO	ERROR MESSAGE	POSSIBLE RESOLUTION
5	Oracle ERP OPERA Create Account	Issue with the date entered for Account in ERP	A 400 Bad Request Error indicates the target service is unable (or refuses) to process the request sent by the client (Oracle Integration Cloud) due to an issue perceived by the server to be a client problem. You can trace the cURL representation of the request sent to the target service from the Oracle Integration Cloud server logs. Try invoking the target service using cURL. It may also be that one of the intermediaries (proxy, LBR) could be returning this code.	This error usually occurs when the request parameters to OPERA do not conform to the acceptable request for OPERA. Usually the case being an account number having more than 20 characters. Fix the data in ERP to prevent the error from occurring in the next run.
6	Any Integration with the ERP ESS job submission APIs	Error while the ERP job is being submitted	JBO-29000: Unexpected exception caught: java.lang.NumberFormatException, msg=null	This error occurs usually when the ERP SOAP service does not accept the request either because of user authentication or if the user is locked. Ensure the Username and Password for the user is correct in all the places that the user is used and the user is not being locked because of multiple unauthorized calls to ERP.

Table 7-1 (Cont.) Errors and Resolutions

SEQ	INTEGRATION NAME	ERROR SCENARIO	ERROR MESSAGE	POSSIBLE RESOLUTION
7	Oracle ERP OPERA Create AR Address	Duplicate Address ID or reuse of AR address	No AddressId received during AR Address Creation. Make sure the address lines are not duplicated for the same Company Profile.	This issue occurs for a given customer when there are two accounts in the same Business Unit using the same address. Refrain from using the same address for two different accounts in the same Business Unit in ERP.
8	Oracle ERP OPERA Monitor ESS Job Status	ESS Job integration timeout.	Timeout has occurred after 540 seconds.	This error usually occurs when the ESS Job status is not returned and the Integration took a long time to process each call for getting the job status and timed out. This error would automatically be fixed when the Environment is working normally. Alterna tively, the retry counter variable "Job_retry_count" (max value: 30) in the lookup "ORACLE-BRT- ErrorNotification Configuration" can be set to a lower value.

Table 7-1 (Cont.) Errors and Resolutions

SEQ	INTEGRATION NAME	ERROR SCENARIO	ERROR MESSAGE	POSSIBLE RESOLUTION
9	Integrations with the ERP APIs	Authentication failure for ERP calls	Received a SOAP fault while invoking endpoint target: <ERP CLOUD ENDPOINT>. This indicates a processing exception on the service endpoint side. Check the service side logs to further diagnose the problem &lt;! [CDATA[ Fault Code : ns0:FailedAuthentication Fault String : FailedAuthentication : The security token cannot be authenticated.	This error usually occurs when the ERP SOAP service does not accept the request either because of user authentication or if the user is locked. Ensure the Username and Password for the user is correct in all places the user is used, and the user is not being locked because of multiple unauthorized calls to ERP.

Table 7-1 (Cont.) Errors and Resolutions

SEQ	INTEGRATION NAME	ERROR SCENARIO	ERROR MESSAGE	POSSIBLE RESOLUTION
10	Oracle ERP OPERA Sync Customer Contact	Data issue for creating customer contact	A 400 Bad Request Error indicates the target service is unable (or refuses) to process the request sent by the client (Oracle Integration Cloud) due to an issue that is perceived by the server to be a client problem. You can trace the cURL representation of the request sent to the target service from the Oracle Integration Cloud server logs. Try invoking the target service using cURL. It may also be that one of the intermediaries (proxy, LBR) could be returning this code.	This error usually occurs when the request parameters to OPERA do not conform to the acceptable request for OPERA. One example of this is the email id field having invalid characters. Fix the contact info in ERP for this error to be resolved and contacts to be updated in the next run.

Table 7-1 (Cont.) Errors and Resolutions

SEQ	INTEGRATION NAME	ERROR SCENARIO	ERROR MESSAGE	POSSIBLE RESOLUTION
11	Oracle ERP OPERA Update Account	Issue with the date entered for Account in ERP	A 400 Bad Request Error indicates the target service is unable (or refuses) to process the request sent by the client (Oracle Integration Cloud) due to an issue perceived by the server to be a client problem. You can trace the cURL representation of the request sent to the target service from the Oracle Integration Cloud server logs. Try invoking the target service using cURL. It might also be that one of the intermediaries (proxy, LBR) could be returning this code.	This error usually occurs when the request parameters to OPERA do not conform to the acceptable request for OPERA. Usually, the case being an account number having more than 20 characters. Please fix the data in ERP to prevent the error from occurring in the next run.



Table 7-1 (Cont.) Errors and Resolutions

SEQ	INTEGRATION NAME	ERROR SCENARIO	ERROR MESSAGE	POSSIBLE RESOLUTION
12	Oracle OPERA ERP Execute EssJobs	Status of ESS job is "Unknown" after multiple retries	Status of ESS Job is unknown. Review the following details and make the necessary fix if required: ESS Job Name: ProcessARTransactionalEventsForSummaryTablesEss   ESS Job Path: / oracle/apps/ess/ financials/ receivables/ shared/	"This error most likely occurs if the Fusion environment is slow and the ESS job status has not changed to either SUCCEEDED or ERROR after a long time. The error will be automatically fixed when the Fusion environment starts working normally. Alternatively the retry counter variable ""Job_retry_count"" (max value: 30) in the lookup ""ORACLE-BRT-InvoiceSync_ERP_Job_Configuration"" can be set to a higher value."
13	Oracle ERP OPERA Update Credit Status	ERP report Execution failure	Execution of FUSION ERP JOB to extract customer credit status failed. Admin has been notified	This error occurs when ESS job execution fails. Check the failures in the Execute ESS jobs integration.
14	Oracle ERP OPERA Update Credit Status	Write to FTP failure	" ""ErrorMessage"" : ""ICS runtime execution error"", ""PointOfFailure"" : ""API Invocation Error - WriteBIPReportLog_FTP""	This error can occur if FTP is down or the FTP directory path is not correct in the Lookup. Check the FTP server and verify the directory path to resolve this kind of error.

Table 7-1 (Cont.) Errors and Resolutions

SEQ	INTEGRATION NAME	ERROR SCENARIO	ERROR MESSAGE	POSSIBLE RESOLUTION
15	Oracle ERP OPERA Update Credit Status	OIC Lookup Update Failure	""""ErrorMessage" ": ""ICS runtime execution error""", ""PointOfFailure" ": ""API Invocation Error - UpdateLastRunTi meStamp_OIC""""	This error occurs most likely when the Lookup that is being updated is not available or is locked. Verify the lookup availability and unlock if locked, to resolve this issue
16	Applicable to all integrations invoking OPERA API	Missing HotelId during invoke of OPERA API	! [CDATA[CASDK-0 041: An error occurred while invoking the REST endpoint. [[Template parameter [HotelId] is required and cannot have a null or empty value.]].The 406 Not Acceptable is an HTTP response status code indicating the client has requested a response using Accept- headers that the server is unable to fulfill. Review the target service URL and try invoking the request using cURL. ]]>"	Verify the HotelId in the template parameter of the OPERA API is not null and is valid.
17	Applicable to all integrations invoking a local OIC helper integration	Invoke failure - OIC Service Unavailable	503 Service Unavailable	"This error occurs when the OIC local integrations used in the Accelerator package are deactivated.  The error will be resolved when these integrations are activated."

Table 7-1 (Cont.) Errors and Resolutions

SEQ	INTEGRATION NAME	ERROR SCENARIO	ERROR MESSAGE	POSSIBLE RESOLUTION
18	Applicable to all integrations invoking generic error handler	Invoke failure - OIC Generic Error handler Deactivated	<ns2:title>Service Unavailable</ns2:title><ns2:errorCode>503</ns2:errorCode><ns2:errorPath>&lt;! [CDATA[POST returned a response status of 503 Service Unavailable]]	Check the Generic Error Handler integration and make sure it is active.
19	Applicable to all integrations having FTP connection	Failure in listing invoice from source FTP directory	"The JCA Binding Component was unable to establish an outbound JCA CCI connection due to the following issue: Error in establishing a session with SSH Server.  Error in establishing a session with SSH Server.  Unable to establish a session with the server.  Please ensure hostname and port specified to log in to the server are correct."	This issue may occur intermittently if the FTP server is busy. Check the FTP connection host, port, and login credentials and verify the FTP server is accessible.

Table 7-1 (Cont.) Errors and Resolutions

SEQ	INTEGRATION NAME	ERROR SCENARIO	ERROR MESSAGE	POSSIBLE RESOLUTION
20	Oracle OPERA ERP Process Invoice Upload	Account number missing in invoice source file	"<details xmlns=\\"http://www.oracle.com/2014/03/ics/fault\\">No Account number received in the OPERA invoice line with Invoice number: 75126</details>",  ""PointOfFailure" "- ""Error while retrieving Account Number from Invoice line - Account number does not exist. File name: SAND05_ARINVOICES_20210925.CSV"	The original file did not have an Account Number in the invoice line. This needs to be corrected at the source.
21	Oracle OPERA ERP Process Invoice Upload	Error invoking OPERA GetAccountDetails (to fetch AddressId)	<nstrgdf:errorCode>405</nstrgdf:errorCode><nstrgdf:errorPath>&lt;! [CDATA[GET <OHIP ENDPOINT URL> returned a response status of 405 Method Not Allowed]]&gt;</nstrgdf:errorPath><nstrgdf:instance>&lt;! [CDATA[{"msg": "Service method /ars/v0/accounts1 is not allowed to be accessed"}]	Error in API invocation URL. Check the URL and verify the query parameters are in the correct format.

Table 7-1 (Cont.) Errors and Resolutions

SEQ	INTEGRATION NAME	ERROR SCENARIO	ERROR MESSAGE	POSSIBLE RESOLUTION
22	Oracle OPERA ERP Process Invoice Upload	Error during write of invoice line in OIC local storage from OPERA to ERP invoice format	ORABPEL-11101\ nTranslation Failure. nTranslation to native failed. Element 'Transaction_Batch_Source_Name' not expected. The data does not conform to the NXSD schema. Please correct the problem.	Verify the Mandatory fields in the original invoice are not missing.

Table 7-1 (Cont.) Errors and Resolutions

SEQ	INTEGRATION NAME	ERROR SCENARIO	ERROR MESSAGE	POSSIBLE RESOLUTION
23	Oracle OPERA ERP Process Invoice Upload	Error while invoking FBDI using ERP Integration adapter	"CASDK-0033: Received a SOAP fault while invoking endpoint target: <ERP Cloud Endpoint URL>. This indicates a processing exception on the service endpoint side. Please check service side logs to further diagnose the problem &lt;! [CDATA[ \nFault Code : ns0:FailedAuthentication\nFault String : FailedAuthentication : The security token cannot be authenticated.\n ] ]&gt;\n:Application Error</reason><operation xmlns=\\"\"\">importBulkData</operation></details>\"", ""PointOfFailure"" : ""Processing of invoice file and uploading to ERP failed. File name: SAND05_ARINVOICES_20210925.CSV""	The failure in invoking the ERP FBDI invoice import due to security token authentication failure can be corrected by updating the latest ERP password in the connection 'Oracle Cloud ERP Integration.'

Table 7-1 (Cont.) Errors and Resolutions

SEQ	INTEGRATION NAME	ERROR SCENARIO	ERROR MESSAGE	POSSIBLE RESOLUTION
24	Oracle OPERA ERP Initiate Customer Balances	Status of Fusion ERP Job execution failed	Status of Fusion ERP Job execution failed. Job details below: ESS Job Name: OPERA_Invoice_Processing_Credit_UPD_AccountBalance   ESS Job RequestId: 4544793   ESS Job Path: /oracle/apps/ess/custom/OPERA_Invoice_Processing_Recipe/Credit_Update/	"This error occurs when the BIP report name for customer balance is not matching with the report name configured in the fusion environment. The error can be fixed by changing the BIP report name in the fusion."
25	Oracle OPERA ERP Execute EssJobs	API Invocation Error - UpdateCurrentStartTime_OIC	ORACLE-BRT-InvoiceSync_OIC_SYSTEM_Config&amp;" is locked by another user and cannot be processed right now.412 Precondition Failed: The server does not meet one of the preconditions that the requester put on the request. If the call to the target service using a cURL request is successful, then contact oracle support with the details.	"This error occurs when the ""ORACLE-BRT-InvoiceSync_OIC_SYSTEM_Config"" lookup is opened in editable mode or locked by any user. It can be resolved by closing the lookup and releasing the lock."

# 8

## References

### **Oracle Integration Cloud (OIC)**

Refer to the [OIC Getting Started Guide](#) for the following information:

- OIC and its Accelerators
- Defining the Integration Schedule
- Adding integration users and assigning roles

Refer to the [File Server: Store and Retrieve Files](#) page for information related to the embedded OIC File Server, such as how to activate and configure it.

### **Oracle Hospitality Integration Platform (OHIP)**

Visit the following for information on the OHIP platform:

- The [OHIP](#) documentation page.
- For technical details on each OHIP API, visit the [Postman Workspace](#).
- If already subscribed to OHIP, you can also use the OHIP Developer Portal for details and examples on OHIP APIs.

### **Oracle Fusion ERP Integration**

Visit the [Oracle Cloud ERP Integration documentation page](#) for information about the Oracle Cloud ERP Integration Financials component.



# 9

## Support Considerations

This OIC Accelerator is a component part of the Oracle Integration Cloud (OIC) Service. For OIC support considerations, visit the [Oracle Integration](#) page.

When entering a service request (SR), please use 'Hospitality Adapter component' as the context of the SR.

# 10

## Compatibility List

This chapter lists the Oracle products compatible with this OIC Accelerator and the minimum required versions.

**Table 10-1 Compatibility**

<b>Oracle Cloud Service</b>	<b>Minimum Required Version</b>
Oracle Integration Cloud	21.3.3
Oracle Hospitality Integration Platform	21.3.1
Oracle OPERA Cloud	21.2
Oracle Fusion ERP Integration	21D (11.13.21.10.0)

# Appendix A — External System References used by the Accelerator

## Mapping Structure

1. ERP Customer/Party : OPERA Company Profile
  - a. ERP (Table.Field) – HZ\_PARTIES.PARTY\_ID
  - b. OPERA – Company Profile 'ProfileId' to be extracted via a report from OPERA
2. ERP Account Site ID : AR Address ID
  - a. ERP (Table.Field) – HZ\_CUST\_ACCT\_SITES\_ALL.CUST\_ACCT\_SITE\_ID
  - b. OPERA – to extract AR Address ID from OPERA, use the **Get Company Profile** API.
    - i. URL Sample: GET {{OHIP-HostName}}/crm/v1/profiles/{{ProfileId}}?fetchInstructions=ADDRESS
    - ii. Request headers: x-app-key, x-hotelid
    - iii. profileDetails > addresses > address > id
3. ERP Account ID : Concatenated value of ERP BU ID, OPERA Account ID, and associated OPERA Property.
  - a. ERP (Table.Field) - HZ\_CUST\_ACCOUNTS.CUST\_ACCOUNT\_ID
  - b. OPERA – to extract AR Account ID from OPERA, use the **Get AR Account** API.
    - i. URL Sample: GET {{OHIP-HostName}}/crm/v0/profiles/{{ProfileId}}/accounts?idContext=OPERA&type=Profile
    - ii. Request headers: x-app-key, x-hotelid
    - iii. accounts > accountId > id

### Note:

The Hotel-ID used in the request header retrieves the accounts under that specific hotel-id for a company profile from OPERA.

## Creating External Reference in ERP (SOAP Service)

The Original System References are expected to follow a pattern. A sample request is shown below.

1. For Customer/Party:
  - a. <Orig System As created>
  - b. <OPERA ProfileId>

- c. HZ\_PARTIES
  - d. <ERP Party ID>
2. For Account Site:
    - a. <Orig System As created>
    - b. <OPERA Address ID>
    - c. HZ\_CUST\_ACCT\_SITES\_ALL
    - d. <ERP Account Site ID>
  3. For Account:
    - a. <Orig System As created>
    - b. Concatenation of <ERP BU ID>-<OPERA AR Account ID>\_<OPERA\_HOTEL\_ID>
    - c. HZ\_CUST\_ACCOUNTS
    - d. <ERP Account ID>
  4. API Name: Create Original System Reference
  5. SOAP service WSDL:
    - a. {{{ERP-HostName}}}/foundationParties/OriginalSystemReferenceService?WSDL
    - b. Operation: createOriginalSystemReference

#### Creating External Reference in OPERA

1. Add ERP PARTY\_ID to Company Profile
2. API Name: Update Company Profile
  - a. URL Sample: {{{OHIP-HostName}}}/crm/v1/profiles/{{{ProfileId}}}
3. Request headers: x-app-key, x-hotelid

#### Note:

The request payload contents can be obtained using the “Get Company Profile” as mentioned in the Mapping Structure Point 2b of this Appendix. Add the “externalReferences” section to the payload per OHIP documentation for the API.