

# Oracle® Financial Services Lending and Leasing Cloud Service

File Handling Process



Oracle Financial Services Lending and Leasing Cloud Service,

File Handling Process

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### 1. Preface

#### 1.1. Introduction

As organizations transition from on-premises solutions to cloud-based platforms, it is essential to recognize the implications this shift has on various processes and functionalities. This is to explore the significant changes accompanying this migration, particularly in the area of file handling. One of the crucial processes impacted is the upload and download of files, which will undergo notable enhancements to leverage the cloud's capabilities.

In a cloud environment, file upload and download processes are optimized for better performance, scalability, and security. Unlike traditional on-premises systems, the cloud allows for more flexible and efficient data management strategies. This whitepaper outlines how these process changes can enhance user experience, streamline operations, and improve overall system efficiency. By understanding these transformations, organizations can effectively plan their transition and harness the full potential of the Oracle Financial Services Lending and Leasing Cloud solutions.

#### 1.2. Abbreviations and Acronyms

| Acronyms | Abbreviations            |
|----------|--------------------------|
| ID       | Identifier               |
| URL      | Uniform Resource Locator |
| UI       | User Interface           |

#### 1.3. Screenshot Disclaimer

Personal information used in the interface or documents is dummy and does not exist in the real world. It is only for reference purposes.

## 2. Overview of the File Upload Process

If the user wants to feed the external files into the system, the method is to use the APIs. Using this, users can upload the files into the system, and those can be processed by the existing batch jobs.

### 2.1. Prerequisite:

1. The Webservice deployment was done in the same instance, and it should be up and running:
  - o Validate the Swagger Documentation endpoint of that instance, annotation of the URL: <https://<host>/OfsIIRestWS/>  
(For Example: <https://demo.ofsIIcs.ocs.oraclecloud.com/OfsIIRestWS/>).
2. Token Based Authentication is enabled for a User Code.

### 2.2. Configuration:

1. Set the system parameters as given below:

| Field                 | Configuration        |
|-----------------------|----------------------|
| Parameter             | DEPLOYMENT_TYPE      |
| Parameter Description | DEPLOYMENT TYPE CODE |
| Parameter value       | CFS or GBUCS         |

**System Parameters**  
Important: This is a one-time setup before starting to use the product. You must only change configuration values once you know the impact of the system. It will help ensure that the system runs properly.

View Format Freeze Detach Wrap

| Parameter           | Parameter Description | Parameter Value |
|---------------------|-----------------------|-----------------|
| CMN_DEPLOYMENT_TYPE | DEPLOYMENT TYPE CODE  | ON-PREISE       |

**System Parameters**

Parameter: CMN\_DEPLOYMENT\_TYPE  
Parameter Description: DEPLOYMENT TYPE CODE  
\* Parameter value: CFS (dropdown menu with options: CFS, GBUCS, ON-PREISE)  
\* Enabled: ☒

Enter the value for the system parameter

Save

2. Make sure the following set of system parameters values as **Y** and Enabled.

| Parameter                   | Parameter Description  |
|-----------------------------|--|
| CMN_AUD_FILE_PROCESS_TO_LOB | CHANGE AUDIT SCRIPT INCOMING/OUTGOING FILE PROCESS TO CLOB PROCESS     |
| CMN_DOC_PROCESS_TO_LOB      | APPLICATION AND ACCOUNT DOCUMENT FILE STORAGE TO BLOB(YES)/ BFILE(NO)  |
| CMN_EDF_FILE_PROCESS_TO_LOB | CHANGE DIALER INTERFACE INCOMING/OUTGOING FILE PROCESS TO CLOB PROCESS |

| Parameter                   | Parameter Description   |
|-----------------------------|---|
| CMN_FAX_FILE_PROCESS_TO_LOB | CHANGE FAX INCOMING/OUTGOING FILE PROCESS TO CLOB PROCESS                 |
| CMN_FILE_PROCESS_TO_LOB     | CHANGE INCOMING/OUTGOING FILE PROCESS TO CLOB PROCESS                     |
| CMN_LBT_FILE_PROCESS_TO_LOB | CHANGE LOCK BOX INCOMING/OUTGOING FILE PROCESS TO CLOB PROCESS            |
| CMN_ODD_FILE_PROCESS_TO_LOB | CHANGE OUTPUT DATA DUMP INCOMING/OUTGOING FILE PROCESS TO CLOB PROCESS    |
| CMN_RED_FILE_PROCESS_TO_LOB | CHANGE DATA MASKING POLICY INCOMING/OUTGOING FILE PROCESS TO CLOB PROCESS |
| CMN_SED_FILE_PROCESS_TO_LOB | CHANGE SEED DATA INCOMING/OUTGOING FILE PROCESS TO CLOB PROCESS           |
| CMN_WFP_FILE_PROCESS_TO_LOB | CHANGE WFP UNIT INCOMING/OUTGOING FILE PROCESS TO CLOB PROCESS            |

- Provide access to the below webservices Access Codes. Navigate to the **Setup** screen, Click **Administrator**. Under **Administrator**, click **User**.
- Under **User**, click **Access**. Under **Access**, click **Webservices**.

The **Webservices** screen displays.

Number Generation x Access x

Data Screen Reports Correspondence Transaction **WebService**

**Security Super Group** View Format Freeze Detach Wrap

SETUP

Super Group

SETUP

**Security Access Definition** Edit View Audit

View Format Freeze Detach Wrap

| Access Code                                     | Description                          | Type         | System Defined  | Enabled |
|---|--------------------------------------|--------------|---|---------|
| %FILE%  |                                      |              | <input type="radio"/> Yes <input type="radio"/> No            |         |
| FLL.INCOMINGFILERSOURCE.POST.INCOMINGFILE       | ACCESS TO INCOMING FILE SERVICE      | WEB SERVICES | <input checked="" type="radio"/> Yes <input type="radio"/> No | Y       |
| FLL.OUTGOINGFILERSOURCE.GET.GETOUTGOINGFILE     | ACCESS TO OUTGOING FILE SERVICE      | WEB SERVICES | <input checked="" type="radio"/> Yes <input type="radio"/> No | Y       |
| FLL.OUTGOINGFILERSOURCE.GET.GETOUTGOINGFILELIST | ACCESS TO OUTGOING FILE LIST SERVICE | WEB SERVICES | <input checked="" type="radio"/> Yes <input type="radio"/> No | Y       |

**Security User Access Definition Details** Add Edit View Audit

View Format Freeze Detach Wrap

| Access Type    | Access Value | Allowed  | System Defined                                     |
|----------------|--------------|--|--|
| RESPONSIBILITY | ALL          | <input type="radio"/> Yes <input type="radio"/> No | <input type="radio"/> Yes <input type="radio"/> No |

5. Security User Access Definition Details.

| Access Code                                   | Description                          |
|---|--------------------------------------|
| FLL.INCOMINGFILEREASURE.P<br>OST.INCOMINGFILE | ACCESS TO INCOMING FILE SERVICE      |
| ACCESS TO INCOMING FILE<br>SERVICE            | ACCESS TO OUTGOING FILE SERVICE      |
| ACCESS TO OUTGOING FILE<br>SERVICE            | ACCESS TO OUTGOING FILE LIST SERVICE |

6. Enable the 'Incoming Log File Type Codes' lookup codes for the required files [INCOMING\_FILE\_TYPE\_CD]. If the user wants to upload the files for a specific company, create a new lookup code as <file type>/<company code>

**For Example:** ITU/SK01

| Lookup Code      | Description                            |
|------------------|--|
| IUU              | USER UPLOAD                            |
| <b>ITU/SK01</b>  | TRANSACTION UPLOAD FOR SK01            |
| IPC/SK01         | CUSTOMER BASED PAYMENT UPLOAD FOR SK01 |
| <b>ITU/HKG01</b> | TRANSACTION UPLOAD FOR HKG01           |
| IPU/SK01         | PAYMENT UPLOAD FOR SK01                |
| ICA              | CALL ACTIVITY POSTING ON ACCOUNT       |
| IFD              | LIEN TRACKING PROCESSING               |
| <b>ITU</b>       | TRANSACTION UPLOAD                     |
| EDF              | AUTO DIALER RESPONSE DATA LOAD         |
| LBX              | LOCKBOX                                |

7. Prepare the endpoint URL with the above host as follows: this service is used to upload the Files to the system.

<https://<host>/OfsIIRestWS/service/api/resources/setup/incomingfile>

**For Example:** <https://demo.ofslcs.ocs.oraclecloud.com/OfsIIRestWS/service/api/resources/setup/incomingfile>.

## File Handling Process

**POST** /setup/incomingfile

Method to upload file attached in the input

**Parameters**

| Name   | Description   |
|--|---|
| <b>file</b> * required<br>file<br>(formData) | Stores upload/ Incoming File Contents<br>Choose File No file chosen                 |
| fileType<br>string<br>(formData)             | Process type<br>fileType - Process type   |
| usercode<br>string<br>(formData)             | Standard who<br>example : USR123<br>usercode - Standard who<-> example : USR123</-> |
| ptccompany<br>string<br>(formData)           | Company<br>ptccompany - Company   |

- **file** = actual file to be uploaded.
- **fileType** = should only have three-character 'Incoming Log File Type Codes'. For Example: IPU
- **usercode** = send this value to validate against the Access Setup and Audit purpose
- **ptccompany** = send this value, if the file to be processed by company base batch job, else, system will process by 'ALL' company job.

### Header Parameter:

Content-Type = multipart/form-data

**POST** /setup/incomingfile

Params Body Auth Headers 3 Scripts Docs

+ Add Delete all Description

|              |                         |
|--------------|-------------------------|
| Accept       | /*                      |
| Host         | <calculated at runtime> |
| Content-Type | multipart/form-data     |

### For Example:

**POST** /com/OfsllRestWS/service/api/resources/setup/incomingfile **Send** **201 Created** 93 ms 191 B

Params Body Auth Headers 3 Scripts Docs

Multipart 4

+ Add Delete all Description

|            |  |
|------------|--|
| file       | 14.12 C Env Account Payment File10.txt |
| fileType   | IPU                                    |
| usercode   | RBOINA                                 |
| ptccompany | C1                                     |

Preview

```

1 {
2   "IncomingFileResponseDetail": {
3     "DataFileName": "14.12 C Env Account Payment File10.txt",
4     "FileType": "IPU",
5     "Result": {
6       "Status": "SUCCESS",
7       "StatusDetails": "Incoming File Uploaded Successfully"
8     }
9   }
10 }

```

- Once the file is uploaded, this can be seen from the UI: Click **Dashboard**, under **Dashboard**, click **Processed Files**.
- Under **Processed Files**, click **Incoming Processed File**. Under **Incoming Processed File**, click **Uploaded Files**. The **Uploaded Files** screen displays.

**Uploaded Files**

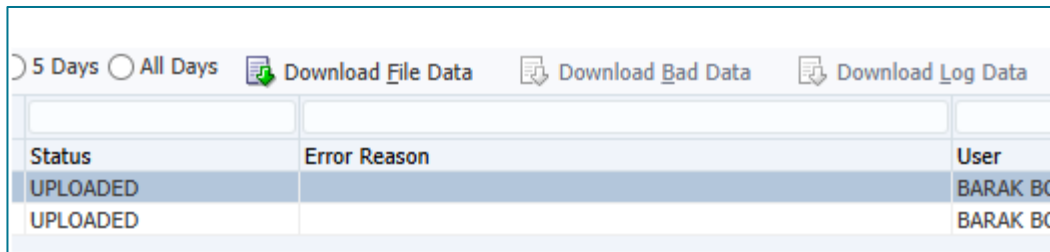
View Format Freeze Detach Wrap View Last 1 Day 2 Days 5 Days All Days

| File Name                              | File Type                      | File Dt                | Status   |
|--|--------------------------------|------------------------|----------|
| 14.12 C Env Account Payment File10.txt | PAYMENT UPLOAD FOR CAC COMP... | 06/20/2025 06:53:59 PM | UPLOADED |
| 14.12 C Env Account Payment File9.txt  | PAYMENT UPLOAD FOR CAC COMP... | 06/20/2025 06:49:21 PM | UPLOADED |



## File Handling Process

10. Run the associated job from the SET-IFP to get it processed.
11. Access the log files from the **Uploaded Files**.



| <input type="radio"/> 5 Days <input type="radio"/> All Days  Download File Data  Download Bad Data  Download Log Data |              |          |
|---|--------------|----------|
|   |              |          |
| Status  | Error Reason | User     |
| UPLOADED  |              | BARAK BO |
| UPLOADED  |              | BARAK BO |

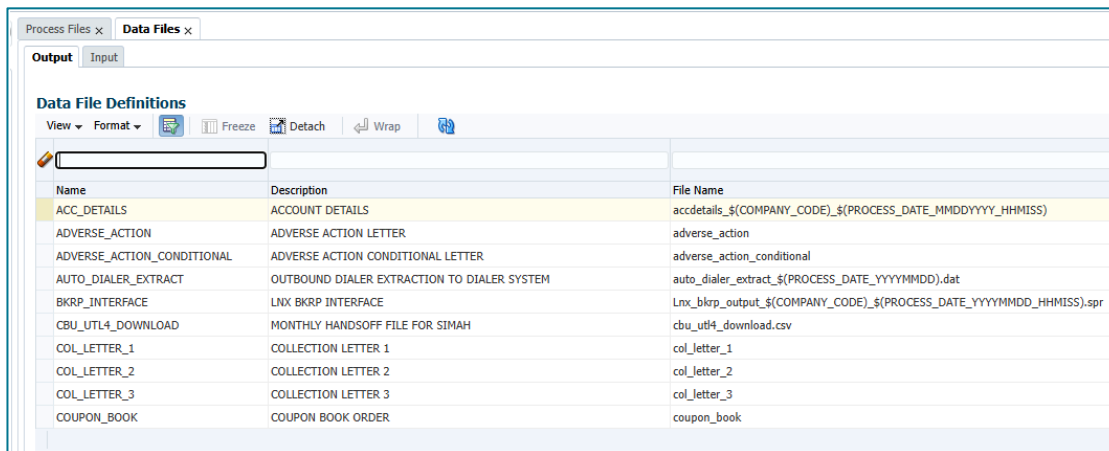
### 3. Access Outgoing Files

If the user wants to access the system-generated outgoing files, to read the files data.

- For GBUCS = use the APIs.
- For CFS = Use UI or APIs.

#### 3.1. Pre-Requisite:

1. From the **Setup** screen, **System**. Under **System**, click **Data Files**.
  2. Under **Data Files**, Click **Output**.
- The **Output** screen displays.



| Process Files x Data Files x   |   |   |
|--------------------------------|---|---|
| Output Input                   |   |   |
| Data File Definitions          |   |   |
| View Format Freeze Detach Wrap |   |   |
|                                |   |   |
| Name                           | Description                                 | File Name   |
| ACC_DETAILS                    | ACCOUNT DETAILS                             | accdetails_\${COMPANY_CODE}_\${PROCESS_DATE_MMDDYYYY_HHMISS}          |
| ADVERSE_ACTION                 | ADVERSE ACTION LETTER                       | adverse_action  |
| ADVERSE_ACTION_CONDITIONAL     | ADVERSE ACTION CONDITIONAL LETTER           | adverse_action_conditional  |
| AUTO_DIALER_EXTRACT            | OUTBOUND DIALER EXTRACTION TO DIALER SYSTEM | auto_dialer_extract_\${PROCESS_DATE_YYYYMMDD}.dat                     |
| BKRP_INTERFACE                 | LNK BKRP INTERFACE                          | Lnk_bkrp_output_\${COMPANY_CODE}_\${PROCESS_DATE_YYYYMMDD_HHMISS}.spr |
| CBU_UTL4_DOWNLOAD              | MONTHLY HANDSOFF FILE FOR SIMAH             | cbu_utl4_download.csv   |
| COL_LETTER_1                   | COLLECTION LETTER 1                         | col_letter_1  |
| COL_LETTER_2                   | COLLECTION LETTER 2                         | col_letter_2  |
| COL_LETTER_3                   | COLLECTION LETTER 3                         | col_letter_3  |
| COUPON_BOOK                    | COUPON BOOK ORDER                           | coupon_book   |

**Note:** Outgoing Files seed data is loaded and enabled.

3. User should create the accounts and run the dependent jobs under SET-TPE, SET-ODD2, and SET-ODD3, etc., at a set frequency as per the functionality to generate the outgoing files.

#### 3.2. UI Approach:

1. From **Access UI**, click **Dashboard**. Under **Dashboard**, click **Processed Files**.
  2. Under **Processed Files**, click **Outgoing Process File**.
- The **Outgoing Process File** screen displays.

## File Handling Process

The screenshot shows the 'Outgoing Process File' interface. It has tabs for 'Incoming Process File' and 'Outgoing Process File'. The 'Outgoing Process File' tab is active, showing a table with columns: File Name, File Type, File Date, File Size(bytes), and Status. There are 10 rows of data, all with 'GENERATED' status. Below the table is a 'History' section with a table showing 'User' (BARAK BOINA BOINA) and 'Download Dt' (06/20/2025 07:44:35 PM).

| Select All                          | File Name                                      | File Type         | File Date              | File Size(bytes) | Status    |
|-------------------------------------|--|-------------------|------------------------|------------------|-----------|
| <input checked="" type="checkbox"/> | master_account_customer_mock_stmt_20200127.dat | OUT PUT DATA FILE | 06/18/2025 07:40:40... | 2332             | GENERATED |
| <input type="checkbox"/>            | master_account_customer_mock_stmt_20200127.dat | OUT PUT DATA FILE | 06/18/2025 07:40:38... | 4447             | GENERATED |
| <input type="checkbox"/>            | master_account_customer_mock_stmt_20200127.dat | OUT PUT DATA FILE | 06/18/2025 06:24:41... | 1578315          | GENERATED |
| <input type="checkbox"/>            | master_account_customer_mock_stmt_20200127.dat | OUT PUT DATA FILE | 06/18/2025 06:24:40... | 1650321          | GENERATED |
| <input type="checkbox"/>            | master_account_customer_mock_stmt_20200527.dat | OUT PUT DATA FILE | 06/18/2025 04:31:22... | 77125            | GENERATED |
| <input type="checkbox"/>            | master_account_customer_mock_stmt_20200527.dat | OUT PUT DATA FILE | 06/18/2025 04:31:22... | 83541            | GENERATED |
| <input type="checkbox"/>            | master_account_customer_mock_stmt_20200427.dat | OUT PUT DATA FILE | 06/18/2025 12:45:54... | 1180             | GENERATED |
| <input type="checkbox"/>            | master_account_customer_mock_stmt_20200427.dat | OUT PUT DATA FILE | 06/18/2025 12:45:52... | 8669             | GENERATED |
| <input type="checkbox"/>            | master_account_customer_mock_stmt_20200327.dat | OUT PUT DATA FILE | 06/17/2025 06:56:37... | 1180             | GENERATED |
| <input type="checkbox"/>            | master_account_customer_mock_stmt_20200327.dat | OUT PUT DATA FILE | 06/17/2025 06:56:36... | 8661             | GENERATED |

| User              | Download Dt            |
|-------------------|------------------------|
| BARAK BOINA BOINA | 06/20/2025 07:44:35 PM |

3. Select the required file and click on **Download**; the file is downloaded directly to the local machine.

### 3.3. API Approach:

#### 3.3.1. Use list the files API to get the File ID.

1. Prepare the endpoint URL with the above host as follows: this service is used to list the system-generated output files for a given File Name. <https://<host>//OfsIIRestWS/service/api/resources/setup/outgoingfile>  
**For Example:** <https://demo.ofsIIcs.ocs.oraclecloud.com/OfsIIRestWS/service/api/resources/setup/outgoingfile>

The screenshot shows a REST client interface for the endpoint `GET /setup/outgoingfile`. It includes a description: 'This service is used to list outgoing process file details'. Below is a 'Parameters' section with three required query parameters: `fileName` (string), `fromDate` (string(\$date)), and `toDate` (string(\$date)). Each parameter has a description and an example value.

| Name  | Description   |
|---|---|
| <b>fileName</b> * required<br>string<br>(query)         | Stores the Output Data File Definition Name<br>example : customer_ach<br>fileName - Stores the Output Data File Definition Nam        |
| <b>fromDate</b> * required<br>string(\$date)<br>(query) | Date range considered for analysis ( Lower Limit ).<br>example : 2017-12-01<br>fromDate - Date range considered for analysis ( Lower  |
| <b>toDate</b> * required<br>string(\$date)<br>(query)   | Date range considered for analysis ( Upper Limit ).<br>example : 2017-12-01<br>toDate - Date range considered for analysis ( Upper Li |

- **fileName:** This should be same as Setup → System → Data Files → Outgoing Files → Data File Definitions → Name.
- **fromDate:** starting date (inclusion) from which the files are needed.
- **toDate:** ending date (inclusion) form which the files are needed.

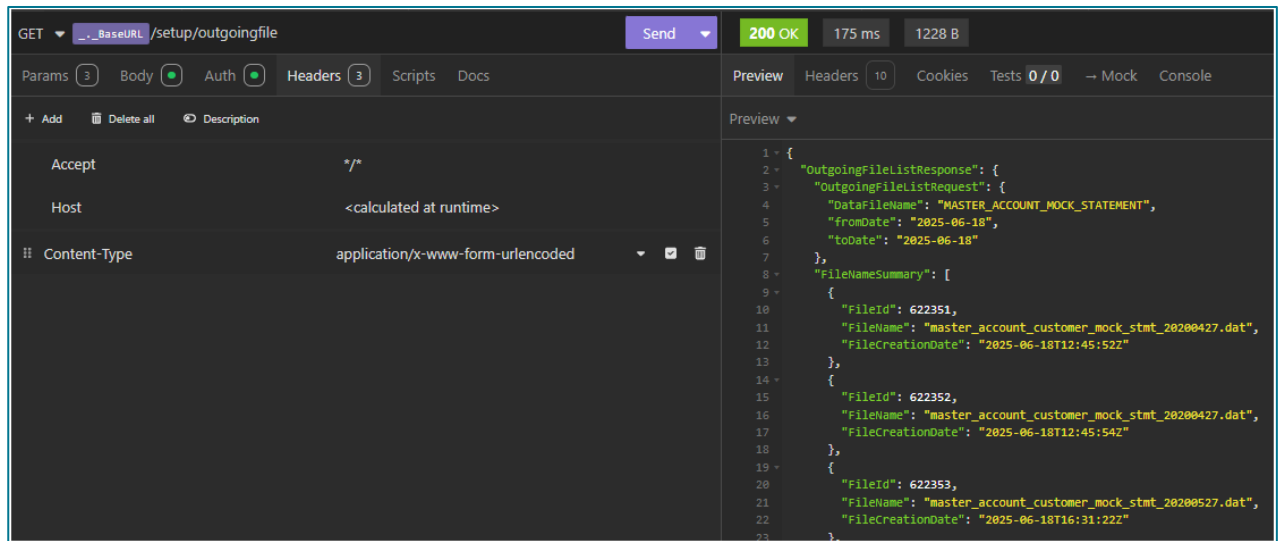
#### Header Parameter:

Content-Type: application/x-www-form-urlencoded

The screenshot shows the 'Headers' tab in the REST client. It lists the 'Accept' header as `/*` and the 'Content-Type' header as `application/x-www-form-urlencoded`.

| Header       | Value                             |
|--------------|-----------------------------------|
| Accept       | /*                                |
| Content-Type | application/x-www-form-urlencoded |

**For Example:**



### 3.3.2. Use the File Download service to download the file data.

1. Prepare the endpoint URL with the above host as follows: this service is used to download the system-generated output file data for the given File ID: <https://<host>/OfsllRestWS/service/api/resources/setup/outgoingfile/{fileid}>

**For Example:** <https://demo.ofsllcs.ocs.oraclecloud.com/OfsllRestWS/service/api/resources/setup/outgoingfile/622351>

**GET**
/setup/outgoingfile/{fileid}

This service is used to download specific system generated outgoing files

**Parameters**

| Name  | Description   |
|---|---|
| <b>fileid</b> * required<br>integer<br>(path) | Reference to Outgoing Process File Id.<br>example : 1001<br><input type="text" value="fileid - Reference to Outgoing Process File Id.&lt;br&gt; exar"/> |
| ptccompany<br>string<br>(query)               | company<br><input type="text" value="ptccompany - company"/>  |

- **File ID:** the file ID which is received as part of **step 2.3.1**, to be provided in the input.
- **ptccompany:** Company code that belongs to the file.

**For Example:**

