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Oracle WebCenter Forms Recognition API User Guide

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# 1 About the WebCenter Forms Recognition RESTful API

WebCenter Forms Recognition RESTful API  provides methods to upload and manage external documents. The uploaded documents are further processed by Runtime Server (RTS).

# 2 Overview

## 2.1 Authentication

| Method | Endpoint | Description |
|---|---|---|
| POST | /api/v1/Authentication | Authenticates credentials and grants access token |

## 2.2 External Batch

| Method | Endpoint | Description |
|---|---|---|
| GET | /api/v1/ExternalBatch | Returns a list of external batches |
| GET | /api/v1/ExternalBatch/{ExternalBatchRef}/Status | Returns the status of an external batch |
| POST | /api/v1/ExternalBatch | Creates an external batch within an import group |
| PUT | /api/v1/ExternalBatch/{ExternalBatchRef}/Status/{BatchStatus} | Sets the status of an external batch |
| PUT | /api/v1/ExternalBatch/{ExternalBatchRef}/Status/MarkReadyForImport | Sets an external batch to the "Ready for Import" status |
| DELETE | /api/v1/ExternalBatch/{ExternalBatchRef} | Deletes an external batch |

## 2.3 External Document

| Method | Endpoint | Description |
|---|---|---|
| GET | /api/v1/ExternalDocument/{ExternalDocumentRef} | Returns external document details and external document bytes |
| GET | /api/v1/ExternalBatch/{ExternalBatchRef}/ExternalDocument | Returns a list of external documents in an external batch |
| GET | /api/v1/ExternalBatch/{ExternalBatchRef}/ExternalDocument/{ExternalDocumentRef} | Returns external document details and external document bytes |
| POST | /api/v1/ExternalBatch/{ExternalBatchRef}/ExternalDocument | Adds a document to an external batch |
| DELETE | /api/v1/ExternalBatch/{ExternalBatchRef}/ExternalDocument/{ExternalDocumentRef} | Deletes a document from an external batch |

## 2.4 Import Group

| Method | Endpoint | Description |
|---|---|---|
| GET | /api/v1/ImportGroup | Gets an import group list |
| POST | /api/v1/ImportGroup | Creates an import group |
| DELETE | /api/v1/ImportGroup | Deletes an import group |

# 3 Upload External Documents

To upload external documents complete the following steps:

1. Authenticate with a valid user that has **AEB** or **ADM** role.
2. Create an import group.
3. Create an external batch within the import group.
4. Add one or more documents to the external batch.
5. Set the external batch to **Ready** for the Import status.

## 3.1 Authenticate Credentials and Grant Access Token

### 3.1.1 POST /api/v1/Authentication

### 3.1.2 Implementation Notes

To gain access to WFR API, the user must be authenticated. The user must be a valid user that has AEB or ADM role.

Upon successful validation of credentials, a bearer token is returned which can then be used to authenticate subsequent calls to WFR API.

By default, a bearer token is valid for 60 minutes.

### 3.1.3 Request Endpoint

```
/api/v1/Authentication
```

### 3.1.4 Sample Curl

```
curl -X POST --header 'Content-Type: application/x-www-form-urlencoded'
-- header 'Accept: application/json' --header 'Pragma: no-cache' --
header 'Cache-Control: no-cache' -d
'userName=UserName&password=Password&grant_ type=password'
'http://localhost/OracleWFRAPI/api/v1/Authentication'
```

### 3.1.5 Sample Request

```
POST /Authentication

userName=<wfrapiuser>&password=<wfrapipasssowrd>&grant_type=password
```

| Parameter | Description | Type | Required |
|---|---|---|---|
| username | User Name | string | Required |
| password | Password | string | Required |
| grant_type | Grant Type | string | Required |

### 3.1.6 Sample Response

```
{
"access_token":
"fH9Km8cf36YDry5AJvgk1WfmZmor7IN4Ep8WCxzbgqDRmZ833E2sGI1aVDbXUmeNokiw3LI
3ufCZ Ox49R-r8hNHtcQf9eT8OmD-ukVFd6_U3lr1W2T4MqdDmQ0gJZ-
Csc3pR0Bf4grJJqyoWOwPzBJmFfRMkNbNKzwMWCOX0JvUKQnK2Mz1kJeijh73CoJN9vXb_W-
zc5yLsMyTdDRX4w", "token_type": "bearer",
```

```
"expires_in": 3599
}
```

### 3.1.7 Response Codes

| Code | Description |
|---|---|
| 200 | Authentication successful. Access token generated. |
| 400 | Invalid request parameters. |

# 4 ExternalBatch

## 4.1 Return a List of External Batches

### 4.1.1 GET /api/v1/ExternalBatch

This request returns the list of external batches optionally filtered by an import group and / or one or more status values.

Use the limit parameter to control the number of batches returned.

### 4.1.2 Request Endpoint

```
/api/v1/ExternalBatch
```

### 4.1.3 Sample Curl

```
curl -X GET --header 'Accept: application/json' --header 'Pragma: no-
cache' -
-header 'Cache-Control: no-cache'
'http://localhost/OracleWFRAPI/api/v1/ExternalBatch?group=ImportGroup&st
atus= 20&limit=100'
```

### 4.1.4 Sample Request

```
GET /ExternalBatch
```

### 4.1.5 Query Parameters

| Parameter | Description | Type | Required |
|---|---|---|---|
| group | Import group name | string | Optional |
| status | List of external batch status values | Array [string] | Optional |
| limit | Number of external batches to return | string | Optional |

### 4.1.6 Response Parameters

| Element | Description | Type |
|---|---|---|
| batchCountUnlimited | Total number of external batches in the system for the request | Integer |
| importGroups | List of import groups | Array |
| name | Import group name | string |
| extBatches | List of external batches that belong to the import group | Array |
| reference | External batch reference | string |
| name | External batch name | string |
| status | External batch status | integer |
| docCount | Number of external documents in the batch | integer |

### 4.1.7 Sample Response

```
{
       "batchCountUnlimited": 0,
       "importGroups": [
       {
              "name": "string",
              "extBatches": [
              {
                "reference": "string",
                "name": "string",
                "status": 0,
                docCount": 0
              }
         ]
       }
  ]
}
```

### 4.1.8 Response Codes

| Code | Description |
|---|---|
| 200 | External batch list returned |
| 204 | No external batches found |
| 422 | The import parameter is invalid. |

## 4.2 Return the Status of an External Batch

### 4.2.1 GET /api/v1/ExternalBatch/{ExternalBatchRef}/Status

This request returns the status of an external batch.

### 4.2.2 Request Endpoint

```
/api/v1/ExternalBatch/{ExternalBatchRef}/Status
```

### 4.2.3 Sample Curl

```
curl -X GET --header 'Accept: application/json' --header 'Pragma: no-
cache' -
```

```
-header 'Cache-Control: no-cache'
'http://localhost/OracleWFRAPI/api/v1/ExternalBatch/BWB0000000001/Status
'
```

### 4.2.4 Sample Request

```
GET /ExternalBatch/BWB0000000001/Status
```

### 4.2.5 Parameters

| Parameter | Description | Type | Required |
|---|---|---|---|
| ExternalBatchRef | External batch reference | string | Required |

## 4.3 Response

| Parameter | Description | Type | Possible Values |
|---|---|---|---|
| status | External batch reference | Integer | **10** Documents can be added or removed from a batch.<br><br>**15** The batch has been processed by RTS. The import of one or more documents failed.<br><br>**20** The batch has been marked 'ready for import' and documents can no longer be added or removed. The batch is ready to be processed by RTS.<br><br>**100** All documents from the batch have been processed by RTS. |

### 4.3.1 Sample Response

```
{
      "status": 0
}
```

### 4.3.2 Response Codes

| Code | Description |
|---|---|
| 200 | External batch status returned. |
| 404 | External batch does not exist. |
| 422 | Invalid external batch reference. |

## 4.4 Create an External Batch Within an Import Group

### 4.4.1 POST /api/v1/ExternalBatch

This request creates an external batch within an import group.

**Notes:** External batches are sets of one or more documents to be imported. The external batch is created inside an import group. If the indicated import group does not yet exist, it will be created. Optionally, names can be assigned to each batch. When an external batch is created, it is empty and has a status value of 10 indicating that documents can be added.

### 4.4.2 Request Endpoint

```
POST /ExternalBatch
{
      "name": "ExternalBatchName",
      "importGroupName": "ImportGroupName"
}
```

### 4.4.3 Sample Curl

```
curl -X POST --header 'Content-Type: application/json' --header 'Accept:
application/json' --header 'Pragma: no-cache' --header 'Cache-Control:
no-cache' -d '{"name": "ExtBatch2", "importGroupName": "ImpGrp1" }'
'http://localhost/OracleWFRAPI/api/v1/ExternalBatch'
```

### 4.4.4 Sample Request

```
POST 'BWB0000000001'
'http://localhost/OracleWFRAPI/api/v1/ExternalBatch' POST /ExternalBatch
{
"name": "ExternalBatchName", "importGroupName": "ImportGroupName"
}
```

### 4.4.5 Response

| Element | Description | Type |
|---|---|---|
| reference | External batch reference | String |

### 4.4.6 Sample Response

```
{
      "reference": "string"
}
```

### 4.4.7 Response Codes

| Code | Description |
|---|---|
| 200 | Returns a unique reference to the created external batch |
| 400 | Request is invalid |
| 422 | External batch name and/or import group name is invalid |

## 4.5 Set the Status of an External Batch

### 4.5.1 PUT /api/v1/ExternalBatch/{ExternalBatchRef}/Status/{BatchStatus}

This request sets the status of an external batch.

Provided that the external batch has not been locked for processing, the status can be set to any value between 10 and 999.

**Note:** Only a batch at status less than 20 can be set to Ready for Import (status 20).

### 4.5.2 Request Endpoint

```
/api/v1/ExternalBatch/{ExternalBatchRef}/Status/{BatchStatus}
```

### 4.5.3 Sample Curl

```
curl -X PUT --header 'Accept: application/json' --header 'Pragma: no-
cache' -
-header 'Cache-Control: no-cache'
'http://localhost/OracleWFRAPI/api/v1/ExternalBatch/BWB0000000001/Status
/20'
```

### 4.5.4 Sample Request

```
PUT /ExternalBatch/BWB0000000001/Status/20
```

### 4.5.5 Parameters

| Parameter | Description | Type | Required |
|---|---|---|---|
| ExternalBatchRef | External batch reference | string | Required |
| BatchStatus | External batch status | string | Required |

### 4.5.6 Sample Response

```
{ }
```

### 4.5.7 Response Codes

| Code | Description |
|---|---|
| 204 | External batch status updated |
| 404 | External batch does not exist |
| 422 | External batch reference and/or batch status is invalid |
| 423 | External batch is ready for import or locked for RTS processing |

## 4.6 Set an External Batch to "Ready for Import" Status

### 4.6.1 PUT /api/v1/ExternalBatch/{ExternalBatchRef}/Status/MarkReadyForImport

This request sets an external batch to "Ready for Import" status.

The status of the external batch is set to 20, indicating that the batch is 'ready for import' by RTS. A batch at this status can no longer have documents added or removed.

This method is only applicable to batches at a status less than 20.

### 4.6.2 Request Endpoint

```
/api/v1/ExternalBatch/{ExternalBatchRef}/Status/MarkReadyForImport
```

### 4.6.3 Sample Curl

```
curl -X PUT --header 'Accept: application/json' --header 'Pragma: no-
cache' -
```

```
-header 'Cache-Control: no-cache'
'http://localhost/OracleWFRAPI/api/v1/ExternalBatch/BWB0000000001/Status
/Mark ReadyForImport'
```

### 4.6.4 Sample Request

```
PUT /ExternalBatch/BWB0000000001/Status/MarkReadyForImport
```

### 4.6.5 Parameters

| Parameter | Description | Type | Required |
|---|---|---|---|
| ExternalBatchRef | External batch reference | string | Required |

### 4.6.6 Sample Response

```
{ }
```

### 4.6.7 Response Codes

| Code | Description |
|---|---|
| 204 | External batch marked as "Ready for Import" |
| 404 | External batch does not exist |
| 422 | External batch reference is invalid |
| 423 | External batch is processed by RTS |

## 4.7 Delete an External Batch

### 4.7.1 DELETE /api/v1/ExternalBatch/{ExternalBatchRef}

This request deletes an external batch.

An external batch can be deleted provided that RTS processing has not yet started. Deleting an external batch also deletes any documents contained within the external batch.

### 4.7.2 Request Endpoint

```
/api/v1/ExternalBatch/{ExternalBatchRef}
```

### 4.7.3 Sample Curl

```
curl -X DELETE --header 'Accept: application/json' --header 'Pragma: no-
cache' --header 'Cache-Control: no-cache'
'http://localhost/OracleWFRAPI/api/v1/ExternalBatch/BWB0000000001'
```

### 4.7.4 Sample Request

```
DELETE /ExternalBatch/BWB0000000001
```

### 4.7.5 Parameters

| Parameter | Description | Type | Required |
|---|---|---|---|
| ExternalBatchRef | External batch reference | string | Required |

### 4.7.6 Sample Response

```
{  }
```

### 4.7.7 Response Codes

| Code | Description |
|---|---|
| 204 | External batch deleted |
| 404 | External batch does not exist |
| 422 | External batch reference is invalid |
| 423 | RTS processing has already started |

# 5 ExternalDocument

This request return external document details and external document bytes.

## 5.1 GET /api/v1/ExternalDocument/{ExternalDocumentRef}

This request returns external document details, such as file name, index, and upload time, as well as external document content.

### 5.1.1 Request Endpoint

```
/api/v1/ExternalDocument/{ExternalDocumentRef}
```

### 5.1.2 Sample Curl

```
curl -X GET --header 'Accept: application/json' --header 'Pragma: no-
cache' -
-header 'Cache-Control: no-cache'
'http://localhost/OracleWFRAPI/api/v1/ExternalDocument/BWD0000000001'
```

### 5.1.3 Sample Request

```
GET /ExternalDocument/BWD0000000001
```

#### 5.1.3.1 Parameters

| Parameter | Description | Type | Required |
|---|---|---|---|
| ExternalDocumentRef | External document reference | string | Required |

### 5.1.4 Response

Multi-part response contains document details and document content.

### 5.1.5 Sample Response

```
{ }
```

### 5.1.6 Response Codes

| Code | Description |
|---|---|
| 200 | Document details and document content returned |
| 404 | External document does not exist |
| 422 | External document reference is invalid |

## 5.2 Return a List of External Documents in an External Batch

### 5.2.1 GET /api/v1/ExternalBatch/{ExternalBatchRef}/ExternalDocument

This request returns a list of external documents in an external batch.

### 5.2.2 Request Endpoint

```
/api/v1/ExternalBatch/{ExternalBatchRef}/ExternalDocument
```

### 5.2.3 Sample Curl

```
curl -X GET --header 'Accept: application/json' --header 'Pragma: no-
cache' -
-header 'Cache-Control: no-cache'
'http://localhost/OracleWFRAPI/api/v1/ExternalBatch/BWB0000000001/Extern
alDocument'
```

### 5.2.4 Sample Request

```
GET /ExternalBatch/BWB0000000001/ExternalDocument
```

### 5.2.5 Response

This request returns a list of external document details for the external batch.

| Element | Description | Type |
|---|---|---|
| reference | External document reference | string |
| filename | External document file name | string |
| Index | Index value | string |
| uploadingTime | Uploading time as string | string |

### 5.2.6 Sample Response

```
[
{
"reference": "string", "fileName": "string", "index": 0,
"uploadingTime": "string"
}
]
```

### 5.2.7 Response Codes

| Code | Description |
|---|---|
| 200 | List of external document details for the external batch |
| 204 | External batch contains no external documents. |
| 404 | External batch does not exist |
| 422 | External batch reference is invalid |

## 5.3 Return External Document Details and External Document Bytes from an External Batch

### 5.3.1 GET /api/v1/ExternalBatch/{ExternalBatchRef}/ExternalDocument/{ExternalDocumentRef}

This request returns external document details and external document bytes from an external batch.

### 5.3.2 Request Endpoint

```
/api/v1/ExternalBatch/{ExternalBatchRef}/ExternalDocument/{ExternalDocum
entRef}
```

### 5.3.3 Sample Curl

```
curl -X GET --header 'Accept: application/json' --header 'Pragma: no-
cache' -
-header 'Cache-Control: no-cache'
'http://localhost/OracleWFRAPI/api/v1/ExternalBatch/BWB0000000001/Extern
alDocument/BWD0000000001'
```

### 5.3.4 Sample Request

```
GET /ExternalBatch/BWB0000000001/ExternalDocument/BWD0000000001
```

### 5.3.5 Parameters

| Parameter | Description | Type | Required |
|---|---|---|---|
| ExternalBatchRef | External batch reference | string | Required |
| ExternalDocument Ref | External document reference | string | Required |

### 5.3.6 Response

Multi-part response contains document details and document content.

### 5.3.7 Sample Response

```
{}
```

### 5.3.8 Response Codes

| Code | Description |
|---|---|
| 200 | Document details and document content returned |
| 404 | External batch and/or document does not exist, or document is not in this external batch |
| 422 | External batch and/or document reference is invalid |

## 5.4 Add a Document to an External Batch

### 5.4.1 POST /api/v1/ExternalBatch/{ExternalBatchRef}/ExternalDocument

This request adds a document to an external batch.

External documents are files to be imported by RTS.

Each external document must be uploaded to an existing external batch and have a unique, valid file name within that batch.

Optionally, an index can be assigned to each document allowing for control over the order in which RTS will import the documents.

This method is only applicable to batches at a status less than 20.

The document information and content are uploaded as a multi-part form data request.

### 5.4.2 Request Endpoint

```
/api/v1/ExternalBatch/{ExternalBatchRef}/ExternalDocument
```

### 5.4.3 Sample Request

```
POST /api/v1/ExternalBatch/BWB0000000001/ExternalDocument
Header contains: 'Content-Type': 'multipart/form-data;
boundary=boundary_ value', 'Authorization': 'bearer …'}
--boundary_value
Content-Disposition: form-data; Content-Type:application/json
{
"externalDocumentFileName": "00000473.tif", "index": 0
}
--boundary_value
Content-Disposition: form-data;

Content-Type: application/octet-stream
... Binary stream of file 00000473.tif...
--boundary_value--
```

### 5.4.4 Parameters

| Parameter | Description | Type | Required |
|---|---|---|---|
| documentInformation | External document details | `ExternalDocumentFile { externalDocumentFileName (string): External document file name , index (integer): External document index }`<br>Example value<br>`{ "externalDocumentFileName": "string", "index": 0 }` | Required |
| externalBatchRef | External batch reference | string | Required |
| fileContent | External document file content | string | Required |

### 5.4.5 Response

Returns a unique reference to the uploaded external document.

### 5.4.6 Sample Response

```
{
"reference": "string"
}
```

### 5.4.7 Response Codes

| Code | Description |
|---|---|
| 200 | Unique reference to the uploaded external document returned |
| 404 | External batch does not exist |
| 409 | External document file name exists in this external batch |
| 422 | External batch reference, document file name, and/or document index is invalid |
| 423 | External batch is marked "Ready for Import" or RTS processing has already started |

## 5.5 Delete a Document from an External Batch

### 5.5.1 DELETE /api/v1/ExternalBatch/{ExternalBatchRef}/ExternalDocument/{ExternalDocumentRef}

This request deletes a document from an external batch.

An external document can be deleted from an external batch provided that the external batch is at a status less than 20.

### 5.5.2 Request Endpoint

```
/api/v1/ExternalBatch/{ExternalBatchRef}/ExternalDocument/{ExternalDocumentRef}
```

### 5.5.3 Sample Curl

```
curl -X DELETE --header 'Accept: application/json' --header 'Pragma: no-cache' --header 'Cache-Control: no-cache' 'http://localhost/OracleWFRAPI/api/v1/ExternalBatch/BWB0000000001/ExternalDocument/BWD0000000001'
```

### 5.5.4 Sample Request

```
DELETE /ExternalBatch/BWB0000000001/ExternalDocument/BWD0000000001
```

### 5.5.5 Parameters

| Parameter | Description | Type | Required |
|---|---|---|---|
| ExternalBatchRef | External batch reference | string | Required |
| ExternalDocumentRef | External document reference | string | Required |

### 5.5.6 Sample Response

```
{}
```

### 5.5.7 Response Codes

| Code | Description |
|---|---|
| 204 | External document deleted |
| 404 | External batch and/or document does not exist, or document is not in this external batch |
| 422 | External batch and/or document reference is invalid |
| 423 | External batch is marked "Ready for Import" or RTS processing has already started |

# 6 ImportGroup

## 6.1 Get Import Group List

### 6.1.1 GET /api/v1/ImportGroup

This request returns a list of import groups.

Import groups identify a set of batches that are processed by one or more RTS instances.

### 6.1.2 Request Endpoint

```
/api/v1/ImportGroup
```

### 6.1.3 Sample Curl

```
curl -X GET --header 'Accept: application/json' --header 'Pragma: no-
cache' -
-header 'Cache-Control: no-cache'
'http://localhost/OracleWFRAPI/api/v1/ImportGroup'
```

### 6.1.4 Sample Request

```
GET /ImportGroup
```

### 6.1.5 Response

| Element | Description | Type |
|---|---|---|
| name | Import group name | string |

### 6.1.6 Sample Response

```
[
 {
      "name": "string"
 }
]
```

### 6.1.7 Response Codes

| Code | Description |
|---|---|
| 200 | Import group list returned |
| 204 | No import group found |

## 6.2 Create an Import Group

### 6.2.1 POST /api/v1/ImportGroup

This request creates an import group.

### 6.2.2 Request Endpoint

```
/api/v1/ImportGroup
```

### 6.2.3 Sample Curl

```
curl -X POST --header 'Content-Type: application/json' --header 'Accept:
application/json' --header 'Pragma: no-cache' --header 'Cache-Control:
no- cache' -d '{ "name":"ImportGroup1" }'
'http://localhost/OracleWFRAPI/api/v1/ImportGroup'
```

### 6.2.4 Sample Request

```
POST /ImportGroup
 {
      "name": "ImportGroupName"
 }
```

### 6.2.5 Parameters

| Parameter | Description | Type | Required |
|---|---|---|---|
| importGroupDetails | Import group name | string | Required |

### 6.2.6 Sample Response

```
{ }
```

### 6.2.7 Response Codes

| Code | Description |
|---|---|
| 204 | Import group created |
| 400 | Request is invalid |
| 409 | Import group exists |
| 422 | Import group name is invalid |

## 6.3 Delete an Import Group

### 6.3.1 DELETE /api/v1/ImportGroup

This request deletes the specified import group.

### 6.3.2 Request Endpoint

```
/api/v1/ImportGroup
```

### 6.3.3 Sample Curl

```
curl -X DELETE --header 'Accept: application/json' --header 'Pragma: no-
cache' --header 'Cache-Control: no-cache'
'http://localhost/OracleWFRAPI/api/v1/ImportGroup?name=ImportGroupName'
```

### 6.3.4 Sample Request

```
DELETE /ImportGroup?name=ImportGroupName
```

### 6.3.5 Parameters

| Parameter | Description | Type | Required |
|---|---|---|---|
| name | Import group name | string | Required |

### 6.3.6 Sample Response

```
{ }
```

### 6.3.7 Response Codes

| Code | Description |
|---|---|
| 204 | Import group deleted |
| 404 | Import group does not exist |
| 422 | Import group name is invalid |
| 423 | Import group is already used in some external batch creation |