

Oracle ERPIntegrationsservice automation using httpost

Oracle ERP Cloud – ERPIntegrationsservice


Automation of ERP Cloud using ERPIntegrationsservice

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Objective:

The objective of the below content is to achieve automation of File Based Data Import to UCM (Universal Content Management) using simple java code (HTTP Protocol). This approach can be used for both ERPCloud data migration and for ERPCloud UAT test automation. The required scenario specific test data can be created by end users and invoke the web service to automatically upload the data and verify the test scenarios are working as intended. The code can be extended in fetching the Test Results.

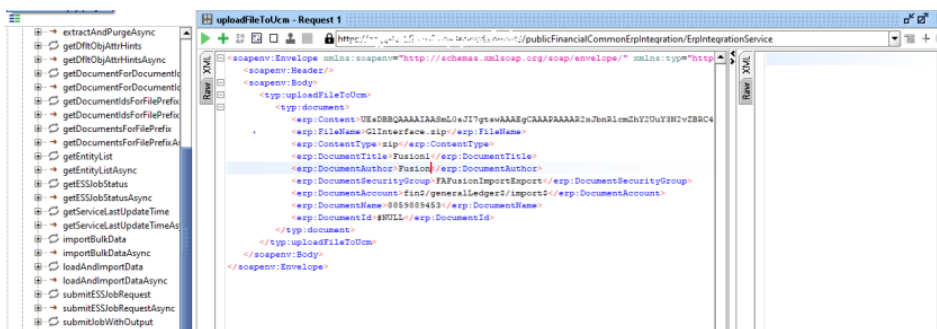
ERP Cloud modules offers FBDI (File Based Data Import) template for quick upload

data integration strategy will have to invoke the ERPIntegrationService using Java or from respective database. The below steps will explain on how to consume ERPIntegrationService (SOAP) web service using standard Java code.

To initiate a web service using HTTP Protocol. The following are the understanding/details required to consume ERPIntegrationService.

Step1 – Understanding the Payload of uploadFileToUCM.

Open SOAP UI and provide the WSDL and click on uploadFileToUcm





The below mentioned payload parameters will change based on the data content (In the above example we are uploading Journal data into UCM)

Payload Parameter Content: Content holds the actual data in FBDI. For e.g.: Journal details mentioned in FBDI need to be converted to base64 format. There are different options to convert the CSV or text content to base64.

Payload Parameter Document Name: Document Name should be unique for every run/upload.

Step2 – Import the certificate from the server into the client trust store.

```
C:\>cd C:\Program Files\Java\jdk1.8.0_144\bin
C:\Program Files\Java\jdk1.8.0_144\bin>keytool -list -v -keystore "C:\Program Files\Java\jdk1.8.0_144\jre\lib\security\cacerts"
```

```
C:\Program Files\Java\jdk1.8.0_144\bin>keytool -list -v -keystore "C:\Program Files\Java\jdk1.8.0_144\jre\lib\security\cacerts"
Enter keystore password:
```

Default password is changeit

```
Alias name: addtrustclassica [jdk]
Creation date: Aug 25, 2016
Entry type: trustedCertEntry

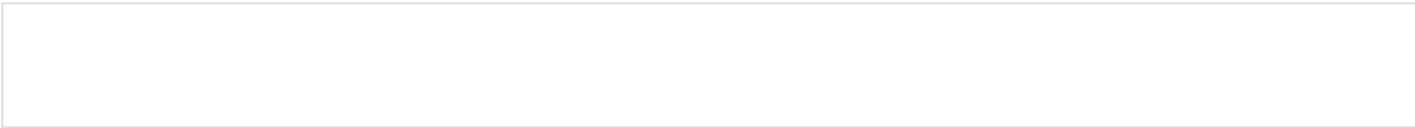
Owner: CN=AddTrust Class 1 CA Root, OU=AddTrust TTP Network, O=AddTrust AB, C=SE
Issuer: CN=AddTrust Class 1 CA Root, OU=AddTrust TTP Network, O=AddTrust AB, C=SE
Serial number: 1
Valid from: Tue May 30 16:08:31 IST 2000 until: Sat May 30 16:08:31 IST 2020
Certificate fingerprints:
    MD5: 1E:42:95:02:33:92:6B:B9:5F:C0:7F:DA:D6:B2:4B:FC
    SHA1: CC:AB:0E:A0:4C:23:01:D6:69:7B:DD:37:9F:CD:12:EB:24:E3:94:9D
    SHA256: 8C:72:09:27:9A:C0:4E:27:5E:16:D0:7F:D3:B7:75:E8:01:54:B5:96:80:46:E3:1F:52:DD:25:76:63:24:E9:A7
Signature algorithm name: SHA1withRSA
Version: 3

Extensions:
#1: ObjectId: 2.5.29.35 Criticality=false
AuthorityKeyIdentifier [
KeyIdentifier [
0000: 95 B1 B4 F0 94 B6 BD C7 DA D1 11 09 21 BE C1 AF .....I...
0010: 49 FD 10 7B I...
]
[CN=AddTrust Class 1 CA Root, OU=AddTrust TTP Network, O=AddTrust AB, C=SE]
SerialNumber: [ 01]
]
```

List of all certificates from trust store will be listed. This is to verify the certificate is not already added to your trust store.

Now – Import Cloud certificate into cacert file to enable the authentication.

Place wsdl in respective browser and download the certificate to local machine.



oraclecloud.com/publicFinancialCommonErpIntegration/ErpIntegrationService

This XML file does

Secure connection

The connection is secure.

Details

The document tree is shown below.

```
<?xml version='1.0' encoding='UTF-8'>
<wsdl:definition xmlns:orafault="http://xmlns.oracle.com/erpintegration/ErpIntegrationService"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"
  xmlns:types="http://schemas.xmlsoap.org/wsdl/types/"
  targetNamespace="http://xmlns.oracle.com/erpintegration/ErpIntegrationService"
  >
  <wsdl:documentation xmlns:oer="http://xmlns.oracle.com/oer">
    <name>ERP Integration Service</name>
    <description>
      provides external web service operations for ERP integration scenarios.
    </description>
    <docCategories>
      <category>External</category>
    </docCategories>
    <oer:lifecycle>Active</oer:lifecycle>
    <oer:compatibility>Supported - Backward Compatibility Assured</oer:compatibility>
    <oer:operation name="getESSJobStatus">
      <description>
        Obtains the request status of the submitted ESS job.
      </description>
    </oer:operation>
  </wsdl:documentation>
</wsdl:definition>
```

Certificate

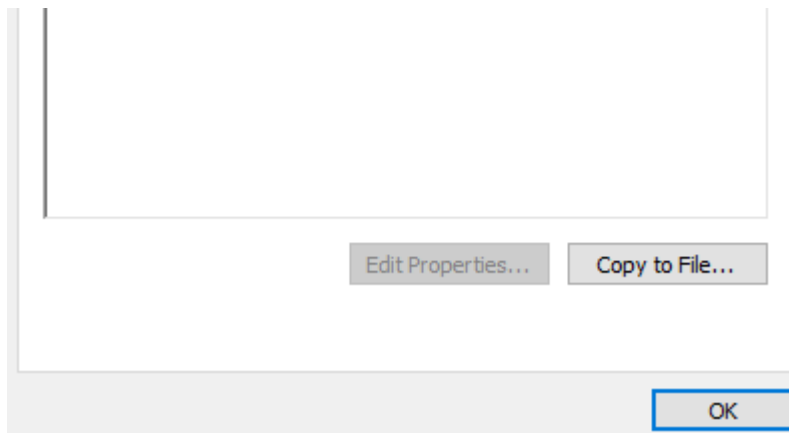
General

Details

Certification Path

Show: <All>

Field	Value
Version	V3
Serial number	70 9d 0f 78 6c 33 55 92 1a 5a ...
Signature algorithm	sha256RSA
Signature hash algorithm	sha256
Issuer	Symantec Class 3 Secure Serv...
Valid from	Monday, April 10, 2017 5:30:0...
Valid to	Wednesday, April 11, 2018 5:...
Subject	* oraclecloud.com Co



Click Copy to File and save the .cer file to your local machine.

ERPAuth	9/19/2017 8:20 PM	File folder	
ErpIntegrationServiceSoapHttpPortClient	9/15/2017 7:47 PM	File folder	
cacerts	8/3/2017 8:46 PM	File	113 KB
client.jks	9/14/2017 10:59 PM	JKS File	2 KB
ErpIntegrationService	9/8/2017 2:50 AM	Security Certificate	3 KB
GIInterface	9/15/2017 8:48 PM	WinRAR ZIP archive	1 KB

Note: you may find the exact steps to download certificate from your respective browser (Chrome/IE etc) by searching in Google.

Downloaded security certificate to be included into trust store using the below keytool.

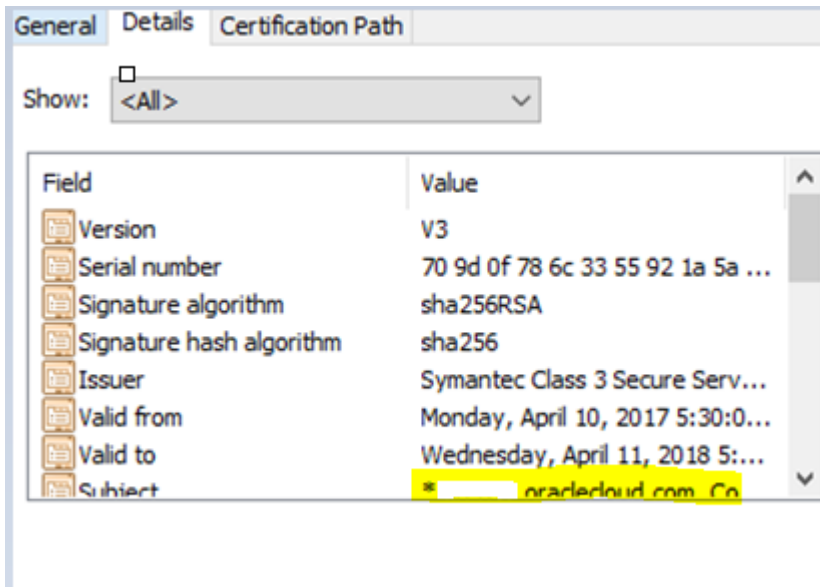
```
C:\Program Files\Java\jdk1.8.0_144\bin>keytool -import -file I:\SOAPFiles\ErpIntegrationService.cer -keystore "C:\Program Files\Java\jdk1.8.0_144\jre\lib\security\cacert.jks"
Enter keystore password:
```

Enter default password changeit and your certificate will be added to truststore.

List's certificate from trust store and ensure it has been added successfully.

```
Alias name: mykey
Creation date: Sep 22, 2017
Entry type: trustedCertEntry

Owner: CN=Oracle Corporation, OU=Oracle Corporation, O=Oracle Corporation, L=Redwood City, ST=California, C=US
Issuer: CN=Dynatrace, OU=Dynatrace, O=Oracle Corporation, L=Redwood City, ST=California, C=US
Serial number: 709d0e786c3555921a5ae0a453bb1f5
Valid from: Mon Apr 10 05:30:00 IST 2017 until: Wed Apr 11 05:29:59 IST 2018
Certificate fingerprints:
MD5: FA:0D:B4:72:14:0E:54:85:DF:3B:92:20:24:DB:79:D4
SHA1: B4:9C:02:14:81:6C:CD:25:31:11:F1:31:0F:5E:8E:AE:22:76:8F:A6:D8:48
SHA256: 29:B7:D0:3E:27:B7:A8:3D:03:84:DA:9C:0D:1D:24:ED:2E:34:81:77:AE:22:53:8F:45:6C:84:59:42:B4:41:0E:1E
Signature algorithm name: SHA256withRSA
Version: 3
```



Above image display the certificate name from browser vs from the list of certificates added to your trust store.

Any IDE can be used to execute the below shared java program. In this blog – Netbeans has been used to execute this script.



The above code snippet is available in this link – [git](#). Replace the input string as per your FBDI data in all the Payload parameters. If you receive 500 – Internal Response error then either of the parameter is incorrect or url mentioned and login credentials mentioned in Httppost line might be incorrect.

Line number 69: Httppost(<Your cloud

URI //publicFinancialCommonExpIntegration/ExpIntegrationService?

URL://publicfinancialCommonErpIntegration/ErpIntegrationService:
 invoke=>),Payload, “User Name:Password”)

Note: Make sure this cloud user has Implementation role and Integration Specialist role.

Invoke service using direct HTTP call with Basic Auth

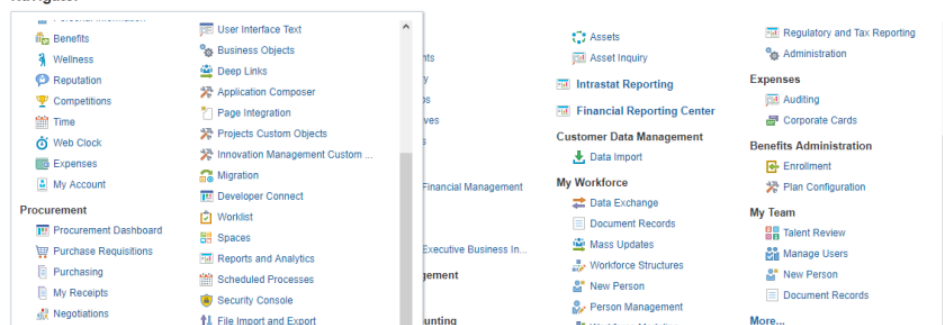
```
post data size:1431
connection status: 200; connection response: OK
=====Service response: =====
-----_Part_66481_988002704.1506969002157
Content-Type: application/xop+xml;charset=UTF-8;type="text/xml"
Content-Transfer-Encoding: 8bit
Content-ID: <4665861e-dd6f-41e4-9b98-3e8c8cbe6765> □

<?xml version="1.0" encoding="UTF-8" ?>
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/" xmlns:wsa="http://www.w3.org/2005/08/addressing">
-----_Part_66481_988002704.1506969002157--
BUILD SUCCESSFUL (total time: 10 seconds)
```

The above highlighted is the response received after uploading file to UCM. Please observe the following details in Payload: “Document Title – Fusion1”. Navigate to front end to verify the successful upload of this file.

Navigate to File Import and Export to verify the upload

Navigator



File Import and Export

Overview

Search

File

Account <null>

Processed <null>

Process ID

Owner

Upload Date Later Than

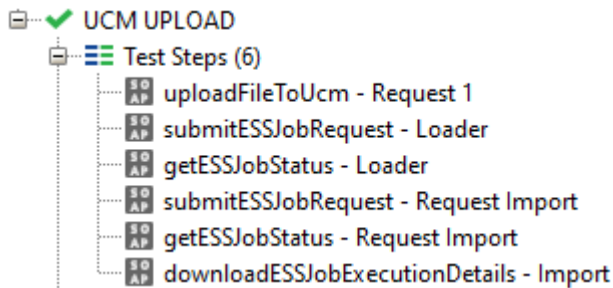
Last Updated Date Later Than

Search Results

Actions

File	Account	Owner	Upload Date	Process ID	Content ID	Title	Last Updated	Format	File Size
Glinterface.zip	fin/general.edg...	237917	10/2/17 6:30 PM		2859889453	Fusion1	10/2/17 6:30 PM	application/zip	307

File has been successfully uploaded. The same approach can be extended in calling the below methods to achieve end to end File upload and spawning the respective ESS jobs to import the data into Interface and Base tables.



***** End of Content

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