

# Legal Notices

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## Introduction

Data Intake Client Utility tool helps the customer to send JMS messages in the format expected by the OIPA server for Data Intake processing.

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## Overview

Data Intake Client Utility tool is required by the customer to send JMS messages in the format expected by the OIPA server for Data Intake processing. OIPA server expects the following four JMS Messages for record processing.

Input data is expected to be in XML format based on the schema defined in Intake profile Definition for a Customer which is configurable using Rules Palette in OIPA.

These messages are expected to be sent in a sequential order for every file. Each message has considerable impact on changing file status during loading and processing. Each of this message is explained below.

## JMS Messages

### Begin Loading

This message submits file data to the server for each file in a data intake scenario which carries file related fields like expected count of records etc. Message content is File Field XML in XML structure as mentioned below (content in bold). This is Optional and can be empty.

```
<dataIntakeScenario>
<!-- Global elements like Group Customer Number, Profile Name will be here-->
<testFile>
<!--File Fields -->
  <fields>
    <field NAME="FieldName1" TYPE="TEXT">FieldValue1</field>
    <field NAME="FieldName2" TYPE="TEXT">FieldValue2</field>
  </fields>
  <testRecord>
    <!-- Record Data -->

  </testRecord>
</testFile>
</dataIntakeScenario>
```

The below properties should be attached to process this message on server side.

| PropertyName        | Property Type | PropertyValue   | Description  |
|---------------------|---------------|---|--|
| operation           | String        | "beginLoading"(hard coded string)                             | Name of the operation  |
| field               | String        | Field (Generated Value)                                       | Generated GUID value for each file   |
| groupCustomerNumber | String        | GroupCustomerNumber (captured from Intake File)               | Customer Number  |
| profileName         | String        | ProfileName (Captured from Intake File)                       | Intake Profile Name  |
| expectedRecordCount | Integer       | expectedRecordCount (Calculated number of records for a file) | Count of Records for each file. This can be calculated using XPATH on the input file |

## Add Record

This message submits record data to the server for every record in order of its presence within DI file. It sets the process order[1] for every record based on its precedence within a record group (Uniquely identified by RecordGroupId[2] ) of a DI File.

Message content is the record XML data as shown below :

```
<dataIntakeScenario>
<pathToMemberId></pathToMemberId>
<pathToRecordGroupId></pathToRecordGroupId>
<groupCustomerNumber></groupCustomerNumber>
<profileName></profileName>
<testFile>
<!--File Fields -->
  <testRecord>
    <oipa:GroupMemberIntakeRecord FILEID="string" xmlns:oipa-
a="http://xmlns.oracle.com/insurance/oipa/v1">
      <!-- Record Data -->
      <Fields>
        <Field1></Field1>
        <Field2></Field2>
      </Fields>
    </oipa:GroupMemberIntakeRecord>
  </testRecord>
</testFile>
</dataIntakeScenario>
```

The below properties should be attached to process this message on server side:

| PropertyName        | Property Type | PropertyValue                                   | Description                              |
|---------------------|---------------|---|--|
| operation           | String        | "addRecord"(hard coded string)                  | Name of the operation                    |
| field               | String        | field (Generated Value)                         | Generated GUID value for each file       |
| groupCustomerNumber | String        | GroupCustomerNumber (captured from Intake File) | Customer Number                          |
| memberId            | String        | memberId (Captured from Intake Record)          | Unique representation of a Record        |
| recordGroupId       | String        | recordGroupId (Captured from Intake Record)     | Unique representation of a record group. |

| PropertyName | Property Type | PropertyValue                            | Description   |
|--------------|---------------|--|---|
| processOrder | Integer       | Process Order (Assigned for each record) | Records under each record Group will be assigned an incremental process order |

## Complete Loading

This message updates the file status to Complete Loading on Server side. The message should be of type Text Message. Below properties should be attached to process this message on server side.

| PropertyName        | Property Type | PropertyValue                                   | Description                        |
|---------------------|---------------|---|------------------------------------|
| operation           | String        | "completeLoading"(hard coded string)            | Name of the operation              |
| field               | String        | field (Generated Value)                         | Generated GUID value for each file |
| groupCustomerNumber | String        | GroupCustomerNumber (captured from Intake File) | Customer Number                    |

## Process

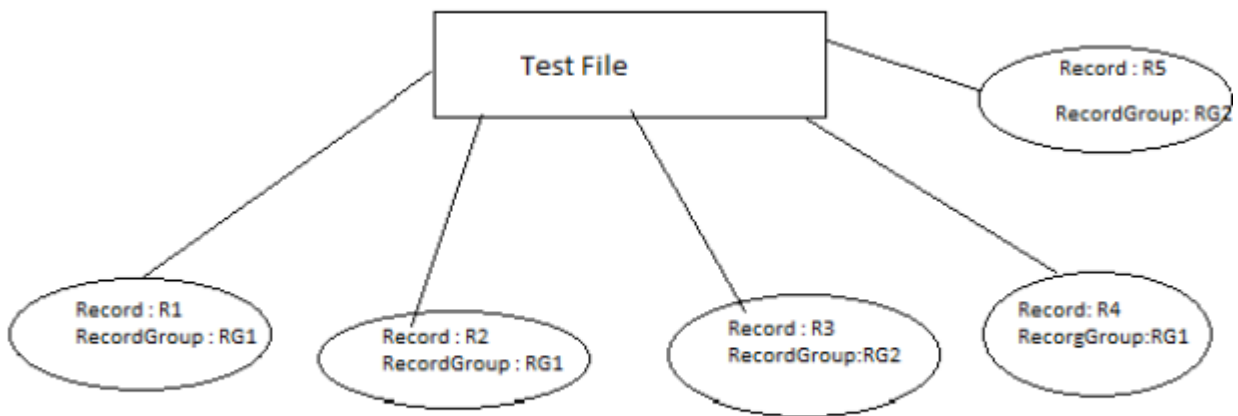
This message updates the file status to "Pending" on the Server side. The message should be of type Text Message. Below properties should be attached to process this message on server side.

| PropertyName        | Property Type | PropertyValue                                   | Description                        |
|---------------------|---------------|---|------------------------------------|
| operation           | String        | "process"(hard coded string)                    | Name of the operation              |
| field               | String        | field (Generated Value)                         | Generated GUID value for each file |
| groupCustomerNumber | String        | GroupCustomerNumber (captured from Intake File) | Customer Number                    |

## record group id and process order

- » Multiple Records in the file can belong to a record group which is uniquely identified by a **RecordGroupID** (Example Sponsor Id)
- » Process Order will be assigned to every record on basis of which the records will be processed on the server side.

**Consider the below scenario:**



In the above example, Records R1, R2 and R4 belong to a RecordGroup RG1 . Records R3 and R5 belong to Record Group RG2. So the Processing order for the first Record Group will be,

| Record | Record Group | Processing Order |
|--------|--------------|------------------|
| R1     | RG1          | 0                |
| R2     | RG1          | 1                |
| R3     | RG1          | 2                |
| R4     | RG2          | 0                |
| R5     | RG2          | 1                |

Observe that processing order starts from 0 whenever a new record group is found while reading the input file.

## JMSConnection

JMS Connection Properties can be either defined in a property file or XML file which need to be loaded on client startup. These are required for message communication between DI Client and OIPA Server. Below properties are required for DI Client to connect to the OIPA Server through JMS:

| Property                   | Description   | Value  |
|----------------------------|---|--|
| contextFactory             | Property that determines which Context Factory to be used to connect JMS provider | Weblogic weblogic.jndi.WLInitialContextFactory Websphere com.ibm.websphere.naming.WsnInitialContextFactory |
| provider.url               | Property that determines JMS provider URL   | Weblogic t3://server:port Websphere iiop://server:BootStrapAddress   |
| jndi.connectionFactoryName | Property that determines connection factory JNDI name                             | <b>IntakeConnectionFactory</b>   |
| jndi.queueName             | Property that determines Queue JNDI name  | <b>DIQueue</b>   |

- » jndi.connectionFactoryName: **IntakeConnectionFactory**
- » jndi.queueName: **DIQueue**

The above property values should match with the Connection Factory name and Queue name configured on Application Server.

## Structure of a data intake file

A sample data intake input file is constructed as shown :

```
<dataIntakeScenario>
<!-- SET TO THE XPATH IN EACH RECORD WHERE WE FIND THE MEMBER ID AND SPONSOR ID TO BE SENT -->
Person/Fields/TaxId
```