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# Front Office PO To Oracle Adapter

## User Guide

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## 1.0 Introduction

The Front Office PO To Oracle Adapter takes configurable data from a request and creates SQL insert statements for Oracle.

### 1.1 Installation

The application is a Microsoft .NET Web application (Version 4), requiring IIS 5.1+, .Net 4 can be downloaded here if required: <http://www.microsoft.com/download/en/details.aspx?id=17718>

***Note: If installing on IIS7 ensure that Role Services for ‘IIS 6 Management Compatibility’ is checked in Server Manager, and that the application pool selected has “Enable 32-Bit Applications” set to true.***

To install:

- log in on the target installation server with administrator privileges
- Extract the files from the zip file into a temporary folder
- Using Windows explorer open the temporary folder, then run setup.exe
- Click the next button
- Set the virtual directory (default FrontOfficePOToOracleAdapter)
- Set the target application pool (ASP.NET v4 on IIS7). Create a new app pool on server 2003/XP.
- Click the next button, then again to start the installation
  - Grant the NETWORK SERVICE account (or account that the selected application pool runs under) “Full Control” rights to: \inetpub\wwwroot\<selected virtual directory>\logs

### 1.2 Oracle Components Installation

On the same server as the accelerator is installed, Install 32-bit Oracle Data Access Components (ODAC) version 11.2, download from here:

<http://www.oracle.com/technetwork/topics/dotnet/utilsoft-086879.html>

You may get a warning saying that Visual Studio is required, ignore and carry on.

## 2.0 Configuration

### 2.1 Edit the xml configuration file

Using an XML editor open up the configuration file found in \inetpub\wwwroot\<selected virtual directory>\xml\FulfilmentConfiguration.xml.

Repeat (and edit) the following block of xml for each request type to be supported:

```
<FulfilmentConfig>
  <RequestTypeCode>BASKET</RequestTypeCode>
  <GetNextMessageIDSq1>select Get_Next_Message_Id__() from dual</GetNextMessageIDSq1>
  <Header>
    <SQL>INSERT INTO in_message_tab</SQL>
    <Mappings>
      <Map>
        <Type>N</Type>
        <SQLFieldName>MESSAGE_ID</SQLFieldName>
        <Source>{**MID**}</Source>
      </Map>
      <Map>
        <Type>S</Type>
        <SQLFieldName>RECEIVER</SQLFieldName>
        <Source>IFSL</Source>
      </Map>
      <Map>
        <Type>S</Type>
        <SQLFieldName>SENDER</SQLFieldName>
        <Source>FRONT OFFICE</Source>
      </Map>
    </Mappings>
  </Header>
  <Lines>
    <LineSQL>INSERT INTO in_message_line_tab</LineSQL>
    <HeaderRecord>
      <Mappings>
        <Map>
          <Type>N</Type>
          <SQLFieldName>MESSAGE_ID</SQLFieldName>
          <Source>{**MID**}</Source>
        </Map>
        <Map>
          <Type>N</Type>
          <SQLFieldName>MESSAGE_LINE</SQLFieldName>
          <Source>1</Source>
        </Map>
        <Map>
          <Type>S</Type>
          <SQLFieldName>NAME</SQLFieldName>
          <Source>HEADER</Source>
        </Map>
        <Map>
          <Type>S</Type>
          <SQLFieldName>C00</SQLFieldName>
          <Source>C01=User, C02 = Location, N03=Front Office Ref no (Primary Key)</Source>
        </Map>
      </Mappings>
    </HeaderRecord>
    <LineRecords>
      <Mappings>
        <Map>
```

```

<Type>N</Type>
<SQLFieldName>MESSAGE_ID</SQLFieldName>
<Source>{**MID**}</Source>
</Map>
<Map>
    <Type>N</Type>
    <SQLFieldName>MESSAGE_LINE</SQLFieldName>
    <Source>{**COUNT**}</Source>
</Map>
<Map>
    <Type>S</Type>
    <SQLFieldName>C04</SQLFieldName>

<Source>{n:bXML/n:RequestTask/n:Request/n:RequestHeader/n:ClientInfo/n:CostCentre/n:Code}</Source>
</Map>
<Map>
    <Type>S</Type>
    <SQLFieldName>C05</SQLFieldName>
    <Source>FIDURL2</Source>
</Map>
<Map>
    <Type>N</Type>
    <SQLFieldName>N01</SQLFieldName>
    <Source>{n:ItemPrice/n:UnitNetPrice}</Source>
</Map>
</Mappings>
</LineRecords>
</Lines>
</FulfilmentConfig>

```

Element	Description
<RequestTypeCode>	Code of the request type to be supported by this configuration section
<GetNextMessageIDSql>	SQL Statement used to retrieve the next available message id
<Header>	Container for header settings
<SQL>	Start of SQL statement for header table insert
<Mappings>	Container for header mappings
<Map>	Container for Map element
<Type>	The data type of the field, N = Numeric, S = String, D = Date
<SQLFieldName>	Name of the target sql field
<Source>	The source of the target sql field, see note below for information
<Lines>	Container for line settings
<LineSQL>	Start of SQL statement for line table insert
<HeaderRecord>	Container for the line header mappings
<LineRecords>	Container for line item mappings
<Name>	The name of the column
<Heading>	The heading of the column
<Width>	The width of the column (in pixels)
<Type>	The type of the column (String or Image)

The Source element can be configured in the following ways:

- {\*\*MID\*\*} will use the value of the previously retrieved message id
  - {FIELDCODE} will extract the value of the specified field code
  - {FIELDCODEXXXX} will extract the column XXXX from a V7 external list box
  - {n:bXML....} will run the specified xpath statement over the fulfilment xml
  - {n:Element....} will run the specified xpath statement over the request item being processed (i.e. just use this for line item data such as Qty, Price etc.)
  - {\*\*COUNT\*\*} will use the current line count (so just for line items)
- Data not enclosed in curly brackets will be used as is, i.e. hardcoded into the insert statement

## 2.2 Front Office Configuration

### 2.2.1 Create Adapter

Create a new adapter as below (adjusting server / virtual directory as per install):

**Details**

ID	3
System Type	Request Fulfilment Hook
Adapter Display	OraclePO *
Name	
Web Service URI	http://192.168.130.12/FrontOfficePOToOracleAdapter/FrontOfficePOToOracleAdapter.asmx *
Timeout (seconds)	60 *
Client Identifier	
Active	<input checked="" type="checkbox"/>

### 2.2.2 Configure request type(s)

For each request type required configure the fulfilment process:

Edit Request Type - Miscellaneous Request

Save OK Cancel

Details Fields Advanced Form Roles Approval Fulfilment SLA Request List Demand Variant

Type Internal Workflow

Activities

- Delay
- Inbox
- Email
- Adapter
- PowerShell
- Open
- SLA
- Close
- SLA

Drop Here

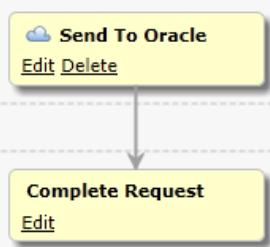
Send To Oracle

Edit Delete

Drop Here

Complete Request

Edit



```
graph TD; A[Send To Oracle] --> B[Complete Request]
```

### 2.2.3 Configure Integration Settings

Create a new integration setting section named exactly “OracleIntegration”

Within the new section create a new setting called ConnectionString

Replace the necessary values to suit the target Oracle installation, HOST, PORT, SERVICE\_NAME, User Id & password will need to be updated.



The screenshot shows a software interface titled "Integration Settings". At the top right are buttons for "Add Section" and "Close". Below the title, a section is labeled "OracleIntegration". Within this section, there is a table with two columns: "Name" and "Value". A single row contains the key "ConnectionString" under "Name" and the corresponding value under "Value": "Data Source=(DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(HOST=DLRDB)(PORT=1521))(CONNECT\_DATA=(SERVICE\_NAME=XE)));User Id=tim;Password=password;" under "Value". To the right of the "Value" column is a small trash can icon.