



Dezrez Leads Information Gateway Service
Integration Guide

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Date:	Tuesday, March 6, 2012
Author:	Rhys Daniels
Contributors:	Ian Pearce Lee Crosby

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Dezrez Leads Information Gateway

Introduction

Dezrez Leads Information Gateway is an information gateway service which allows requests for property orientated transactions to be delivered directly to the desktop of the responsible estate agents and negotiators. These requests are subsequently available for immediate processing within the Dezrez solution. Integration brings many benefits to the subscribing information client and the estate agent as it streamlines information flow between applicant and vendor and reduces the property transaction lifecycle.

The purpose of this document to provide a technical resource for developers who wish to integrate the 'Dezrez Leads' functionality into their property portal or website.

Scope

The document defines the methods available for passing information to the information gateway, the data standards for Electronic Data Interchange (EDI) for each method and the steps required to achieve successful data transfer using the chosen method.

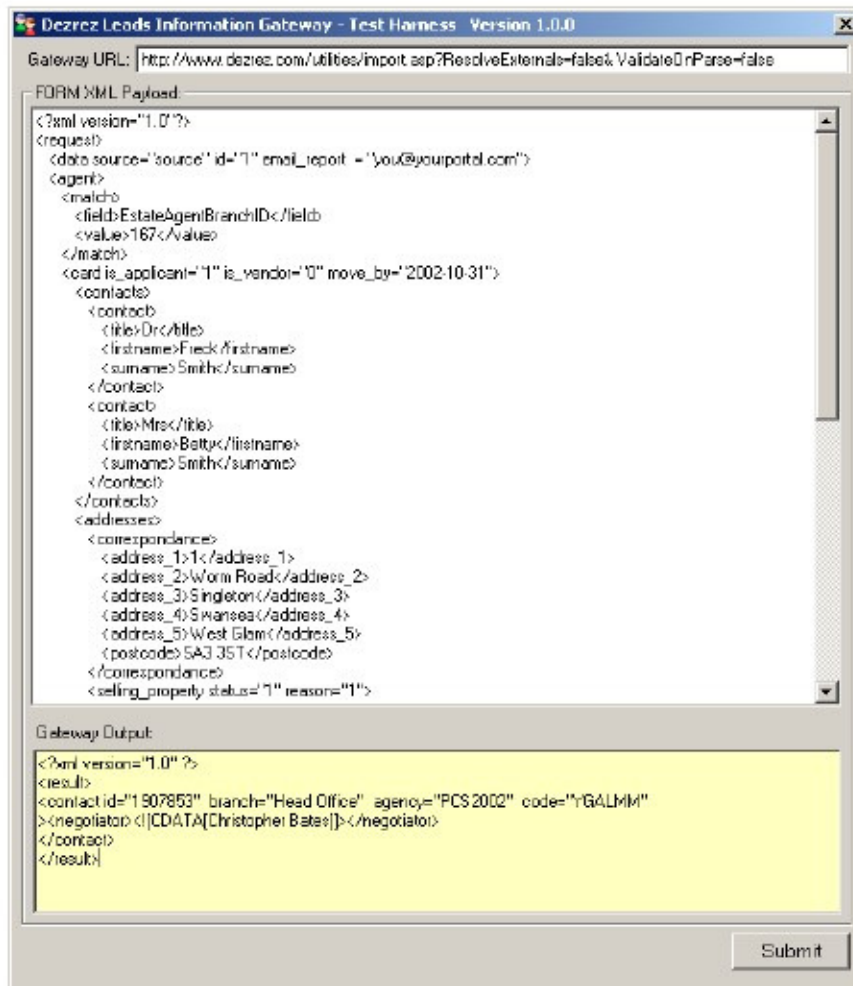
Integration Methods

XML Service Gateway

Overview

The mechanism employed to transfer data to the Dezrez solution is by instigating a call to a web page url request. The payload of the URL request is the XML data detailed below.

Please ask Dezrez for a test submission tool called 'Dezrez Leads Information Gateway Test Harness' to assist you in the integration.



Data Format

The data structure is described below. A sample file is included in Appendix II.

xml	Description	Req
<pre><?xml version="1.0"?> <request xmlns="x-schema:Import-Contact- Schema.xml"></pre>	<p>Xml version</p> <p>Validation schema file.</p>	<p>Y</p> <p>Y-- Element required. All attributes are optional. Y - Leave attributes blank if not required.</p>
<pre><data source="YourPortal" id="1" email_report = ""></pre>	<p>Source of the information. This name and number is unique to each Information Gateway subscriber. Contact Dezrez to receive your allocated source name and ID. This will be fixed for all XML data which is sent to the Information Gateway.</p> <pre><!--name of the company supplying this data--> <AttributeType name="source" dt:type="string" /></pre> <pre><!--ID number supplied by Dezrez.com--> <AttributeType name="id" dt:type="i4" /></pre> <pre><!-- Email address to send a report to for outcome of the post.--> <AttributeType name="id" dt:type="i4" /></pre>	<p>Y-- Element required. All attributes are optional. Y - Leave attributes blank if not required.</p>
<pre><agent> <match> <field>Telephone</field> <value>01792 123456</value> </match></pre>	<p>The service supports entity matching on a number of criteria. The field and value elements denote the primary criteria with which to match the supplied information to correct estate agent branch in the Dezrez information stores. Please contact Dezrez and inform us of the information you would like to use for branch record matching and we will provide you with a constant value for the field element. If the branch cannot be matched, an empty result will be returned.</p>	<p>Y</p> <p>Y</p>
<pre><card is_applicant="1" is_vendor="0" move_by="2002-10-31" ext_id = ""></pre>	<p>Card is the terminology used within Dezrez to describe the container for contact information. A contact can be a vendor or an applicant or both. Each card can contain contact, address and communication details for one or two persons.</p> <p>The is_applicant and is_vendor attribute values should be set accordingly for the contact details supplied.</p> <p>The move by attribute value denotes the preferred move date for an applicant – leave blank if not required else format yyyy-mm-dd.</p> <p>The attribute ext_id can be passed in - this will be used to pass back out the vendor details assigned to the request so it can be mapped back into the calling system.</p> <pre><!--/1 value to indicate if this is an applicant--> <AttributeType name="is_applicant" dt:type="i1" /></pre> <pre><!--/1 value to indicate if this is an vendor--> <AttributeType name="is_vendor" dt:type="i1" /></pre> <pre><!--date by which the want to move in yyyy-mm-dd format--> <AttributeType name="move_by" dt:type="date" /></pre> <pre><!--Reason attributes of the applicant/vendor - See Appendix I for values --></pre>	<p>Y – omit attributes if not required.</p> <p>One attribute must be set i.e contact must be a vendor or an applicant.</p>

	<p><AttributeType name="status" dt:type="i1" /> <AttributeType name="reason" dt:type="i1" /></p> <p><!--External ID number supplied to Dezrez.com - a negotiator email or something to identify the request in your system--> <AttributeType name="ext_id" dt:type="i4" /></p>															
<p><contacts></p>		<p>Y</p>														
<p><contact> <title>Dr</title> <firstname>Fred</firstname> <surname>Smith</surname> </contact> <contact> <title>Mrs</title> <firstname>Betty</firstname> <surname>Smith</surname> </contact> </contacts></p>	<p>These are the contact details for the applicant/vendor (s). For each contact, please specify the elements with the max length listed below.</p> <table border="1" data-bbox="786 562 1238 667"> <thead> <tr> <th>Field</th> <th>MaxLength</th> </tr> </thead> <tbody> <tr> <td>title</td> <td>15</td> </tr> <tr> <td>firstname</td> <td>10</td> </tr> <tr> <td>surname</td> <td>100</td> </tr> </tbody> </table>	Field	MaxLength	title	15	firstname	10	surname	100	<p>Y One contact is required.</p>						
Field	MaxLength															
title	15															
firstname	10															
surname	100															
<p><addresses></p>		<p>Y</p>														
<p><correspondance> <address_1>11</address_1> <address_2>Worm Road</address_2> <address_3>Gowerton</address_3> <address_4>Swansea</address_4> <address_5>West Glam</address_5> <postcode>SA3 4AB</postcode> </correspondance></p>	<p>The correspondence address for the contact(s). correspondence address can be in 2 formats You can supply the whole address in address_1 (it will split the address on Chr\$(10) and place it in the appropriate field) in this case it doesn't matter how long the string is OR put each part off the address in the appropriate field with the max lengths specified.</p> <table border="1" data-bbox="786 958 1238 1137"> <thead> <tr> <th>Field</th> <th>MaxLength</th> </tr> </thead> <tbody> <tr> <td>address_1</td> <td>50</td> </tr> <tr> <td>address_2</td> <td>50</td> </tr> <tr> <td>address_3</td> <td>50</td> </tr> <tr> <td>address_4</td> <td>50</td> </tr> <tr> <td>address_5</td> <td>10</td> </tr> <tr> <td>postcode</td> <td>22</td> </tr> </tbody> </table>	Field	MaxLength	address_1	50	address_2	50	address_3	50	address_4	50	address_5	10	postcode	22	<p>Y Y Leave elements blank if not relevant.</p>
Field	MaxLength															
address_1	50															
address_2	50															
address_3	50															
address_4	50															
address_5	10															
postcode	22															
<p><selling_property status="1" reason="1"> <address_1>15</address_1> <address_2>June Road</address_2> <address_3>Bishopston</address_3> <address_4>Swansea</address_4> <address_5>West Glam</address_5> <postcode>SA1 9PW</postcode> </selling_property></p>	<p>The selling property address details. The attribute value status and reason should be set to one of the status id values listed in Appendix I.</p>	<p>N This element is not mandatory. Leave elements blank if not relevant. Leave attributes blank if not required. Y Y</p>														
<p></addresses></p>		<p>Y</p>														
<p><communications></p>		<p>Leave</p>														
<p><work>01792 123456</work> <home>01792 321456</home> <other/> <mobile>07996 626276</mobile> <email>fred@dezrez.com</email> <fax>01792 765432</fax></p>	<p>Communication details for the contact(s) supplied. All element values are optional. At least one communication detail is required.</p> <table border="1" data-bbox="786 1659 1238 1861"> <thead> <tr> <th>Field</th> <th>MaxLength</th> </tr> </thead> <tbody> <tr> <td>work</td> <td>22</td> </tr> <tr> <td>home</td> <td>22</td> </tr> <tr> <td>other</td> <td>22</td> </tr> <tr> <td>email</td> <td>75 - can be ; separated</td> </tr> <tr> <td>mobile</td> <td>22</td> </tr> <tr> <td>fax</td> <td></td> </tr> </tbody> </table>	Field	MaxLength	work	22	home	22	other	22	email	75 - can be ; separated	mobile	22	fax		<p>elements blank if not relevant.</p>
Field	MaxLength															
work	22															
home	22															
other	22															
email	75 - can be ; separated															
mobile	22															
fax																
<p></communications></p>		<p>Y</p>														
<p><notes>These can be any notes</notes></p>	<p>Additional notes.</p>	<p>N Leave element blank if not relevant. Y</p>														
<p><diary></p>																

```
<item property_id="23988" entry_type="242" alert="1">
```

Holds the property information to which this transaction applies.

Y

THERE CAN BE MANY ITEMS WITHIN THE DIARY ELEMENT FOR DIFFERENT REQUESTS FOR THE CONTACT(S) – PROVIDE MULTIPLE ITEM ELEMENTS.

The attribute property_id should be set to the Dezrez propertyID which is supplied in the original Dezrez information feed into your systems.

The attribute entry_type is used to describe what sort of operation is requested, for example, viewing request, valuation request etc and should be set to one of the values listed in Appendix I.

The attribute alert controls if the diary item will be shown as an alert to the negotiator or just a record of an event. Set to 1 for an alert else 0 for no alert.

```
<!--dezrez property id -->
<AttributeType name="property_id" dt:type="i4" />
```

```
<!--See Appendix I for values-->
<AttributeType name="entry_type" dt:type="ui1" />
```

```
<!-- if the diary item will be shown as an alert to the negotiator or just a record of an event . If omitted it will be assumed to be an alert-->
<AttributeType name="alert" dt:type="ui1"/>
```

```
<subject>This is a diary entry</subject>
<memo>This is a memo</memo>
</item>
</diary>
</card>
</agent>
</data>
</request>
```

Y
Y
Y
Y
Y
Y

Method

A HTTP POST should be sent to the following URL.

<http://www.dezrez.com/utilities/import.asp?ResolveExternals=false&ValidateOnParse=false>

Result

The result of the FORM POST will be an XML string which contains various pieces of information pertinent to the original post.

```
<?xml version="1.0" ?>
<result>
<contact id="1905874" ext_id="" branch="Head Office"
agency="Estate Agent Ltd" code="XFMSLW" >
```

Contact_id is the ID which was allocated to the contact details within the Dezrez system if they matched existing details or if they were created.

ext_id is the ID you specified in the original post for your reference.

branch is the name of the estate agent branch

agency is the name of the estate agent

code is the unique login for the Dezrez members area within the estate agent's website. This allows applicants/vendors to login to view reports etc if the estate agent website supports this functionality.

The name of the negotiator at the branch who has been assigned the request.

```
<negotiator><![CDATA[Christopher Bates]]></negotiator>
```

```
</contact>
</result>
```

Invalid requests

Parse the output string for the following strings to denote an error. In addition, an error report will be sent to the recipient denoted in the attribute email_report within the datasource element.

Source Text	Denotes an error occurred
File Position:	
For loop not initialized	Denotes an error occurred
Automation Error	Denotes an error occurred

HTML Form Posting

Overview

This method uses a html form to post the required information into the information gateway. In response HTML pages are created by the server to request further information.

Data Format

The following HTML form is used to post information into the gateway:

```
<form method="POST" name="requestValuation" action="http://www.dezrez.com/DRAApp/Request.ASP">
</form>
```

The form is to contain the following required information fields:

Field Name	Data Type	Value	Description
EntryName	Text	"viewing", "telephone", "brochure", "valuation"	Denotes the type of referral (operation) requested
EntryType	Numeric	Valuation = "241" Viewing = "242" Call Back = "220" Brochure = "32"	Numeric ID for the type of referral
Origin	Numeric	0-32000	Numeric ID reference of the estate agency (Dezrez ID).
BranchID	Numeric	0-32000	Numeric ID reference of the estate agency branch (Dezrez ID).
PropertyID	Numeric		Numeric ID reference of the property. For a property valuation set this to: -1 for sales -2 for lettings
PropAddress	Text	String contain the property address	Address of the property (not necessary for a valuation request)

Method

Construct a form which posts the required information to the information gateway e.g.:

```
<form method="POST" name="requestViewing" action="http://www.dezrez.com/DRAApp/Request.ASP">
<input type="hidden" name="EntryName" Value="viewing">
<input type="hidden" name="EntryType" Value="242">
<input type="hidden" name="PropertyID" Value="XXXXXXXX"><!--Insert property reference (id) here-->
<input type="hidden" name="Origin" Value="XXX"><!--agency id-->
<input type="hidden" name="BranchID" value="XXX"><!--branch id-->
<input type="hidden" name="PropAddress" value="XXXXXXXX"><!--Insert property address here-->
<input type="submit" value="Request Viewing">
</form>
```

The rest of the process is automated.

It is possible to submit these details in a GET request, simply concatenate the variables into the URL request line.

For example:-

```
http://www.dezrez.com/DRAApp/Request.ASP?EntryName=viewing&EntryType=242& PropertyID=XXXXXXXX&
Origin=XXX? BranchID=XXX& PropAddress= XXXXXXXXX
```


Appendix I – Dezrez Enumeration Values

Selling Property Reasons

Not specified	0
To be closer to family	1
Downsizing	2
Retirement	3
Matrimonial	4
Change of area	5
Going to rental	6
Upmarket	7
Job Relocation	8
Buy To Let	9
Second Home	10
Schools	11
Moved to Residential Home	12
Moving Overseas	13
Project	14

Selling Property Status

Not specified	0
Cash Available	1
Not on Market	2
Nothing to sell	3
Investment Buyer	4
Under offer	5
Exchanged	6
Completed	7
On market with other agent	8
House to sell not dependant	9
On market with member agent	10
First Time Buyer	11
Potential Vendor	12
Been Valued	13
Out of area Vendor	14
New Build	15
Our Vendor	16
Valued By Us	17
Sold Locally	18
Developer	19
Probate	20
Let - ready to Buy	21

EntryType_ID

Telephone Me	220
Brochure Request	32
Valuation Request	241
Viewing Request	242
General Lettings Enquiry	243
General Sales Enquiry	0

Appendix II - XML Example

```

<?xml version="1.0"?>
<request>
  <data source="source" id="1" email_report = "you@yourportal.com">
    <agent>
      <match>
        <field>EstateAgentBranchID</field>
        <value>167</value>
      </match>
      <card is_applicant="1" is_vendor="0" move_by="2002-10-31">
        <contacts>
          <contact>
            <title>Dr</title>
            <firstname>Fred</firstname>
            <surname>Smith</surname>
          </contact>
          <contact>
            <title>Mrs</title>
            <firstname>Betty</firstname>
            <surname>Smith</surname>
          </contact>
        </contacts>
        <addresses>
          <correspondance>
            <address_1>1</address_1>
            <address_2>Worm Road</address_2>
            <address_3>Singleton</address_3>
            <address_4>Swansea</address_4>
            <address_5>West Glam</address_5>
            <postcode>SA3 3ST</postcode>
          </correspondance>
          <selling_property status="1" reason="1">
            <address_1>42</address_1>
            <address_2>Florence Road</address_2>
            <address_3>Bishopston</address_3>
            <address_4>Seanseal</address_4>
            <address_5>West Glam</address_5>
            <postcode>SA4 9EP</postcode>
          </selling_property>
        </addresses>
        <communications>
          <work>01792 123456</work>
          <home>01792 485783</home>
          <other/>
          <mobile>07990 525656</mobile>
          <email>applicant@dezrez.com</email>
          <fax>01792 513321</fax>
        </communications>
        <notes>These can be any notes you cant fit in anywhere else.</notes>
        <diary>
          <item property_id="366875" entry_type="242" alert="1">
            <subject>This is a diary entry</subject>
            <memo>This is a memo</memo>
          </item>
        </diary>
      </card>
    </agent>
  </data>
</request>

```