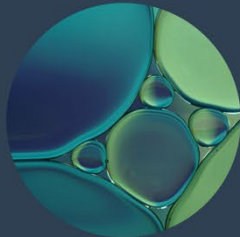


User Guide

XML Orders *made easy.*



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1. Introduction

The Landmark Information Group (LIG) XML Ordering System allows customers to place an order for a report automatically, using an XML message containing the data required to produce the product report.

The standard delivery method is email however other delivery methods may be available (see section 7 for HTTP delivery).

This document is primarily a technical one, intended for developers wishing to interact with LIG XmlOrders.

It will describe how to interact with LIG XmlOrders, and will primarily describe the schema, and give some hints as to how best to construct the required xml messages in order to place reports orders, as well as describing the possible responses and delivery messages.

1.1. Getting Started

All clients using LIG XML Order System will be allocated their own username and password. These logon details, along with the customer portfolio (which will also be allocated) shall be used to place orders via XML Orders. The usage of unique logon details for each client is necessary to:

- Ensure that any orders placed using XML Orders are delivered to the correct email address/URL. The delivery email address/URL is associated with the logon details within the Landmark production system.
- Ensure that all orders are recorded against the correct client which enables the correct fees to be charged and invoiced automatically.

1.2. LIG Test Environment

LIG has external test systems available for clients wishing to test their systems and interaction with LIG systems. The URL for this is the same as the LIVE environment, however, a hosts file entry (or firewall rule) is required to redirect it to the UAT environment. To use this system, the client's user name is the same but the password is set to 'uat'. **Before commencing any testing please notify orders@landmark.co.uk who will be able to support you throughout your testing.**

2. Schema Description

Note: This document will refer to a 'client' as LIG's customer (or you), and the 'server' as LIG (us).

XML messages must conform to LIG's xml ordering schema, which is available at http://www.landmarkinfo.co.uk/xmlorders3/lig_xml_orders.xsd.

The root node of all messages is known as 'Order', and within this node, three types of message are allowed:

1. An order request message, known as 'OrderRequest'. This is a message sent by a LIG customer (client) to LIG (server), and places an order – which can contain requests for one or more report products from LIG's systems.
2. A response to a placed order, known as 'OrderRequestResponse'. This is the reply from the server to client giving notice of whether the order was received. Further validation is carried out after receipt of an order, so please note confirmation of receipt does not mean the order was correctly placed.
3. A delivery of a completed order, known as 'OrderDelivery'. Sent from the server to the client when HTTP delivery has been chosen.

The following sections contain descriptions of the main elements in the schema – and how to use them. These notes are supplementary to the XML ordering schema, with which XML messages must conform, and which is available as above.

3. Product List

The 'Products Table' below (section 3.2) details the report products which are available to be ordered through the XML Ordering System.

3.1. Multiple Product Orders

An order can be placed for a selection of product reports for the same site.

For example, a Homecheck Environmental Report and a Landmark Planning can be ordered for the same site and **two** reports will be received (separately).

However, some reports cannot be ordered in conjunction with others. Please see Section 8 for further details.

3.2. Products Table

This table details the products currently available through the XML Ordering System. If a polygon is sent for a point only product, the report will be generated with the site at the centroid of the polygon. We can only accept a single simple polygon for each order.

PRODUCT KEY	PRODUCT NAME	XML PRODUCT NAME	Point or Polygon	'Insurance' required	'RPS Question Types' required?	Max Site Size (hectares)
1	Envirosearch Residential	EnvirosearchResidential	Polygon	No	No	2ha
15	Homecheck Environmental Report	HomecheckProfessional	Polygon	No	No	2ha
227	Landmark Flood Report	HomecheckProfessionalFloodInsuranceAds or HomecheckProfessionalFlood Report	Polygon	No	No	2ha
167	Landmark Planning	PlansearchPlus	Polygon	No	No	2ha
172	Sitecheck Assess	SitecheckAssess	Polygon	No	No	25ha
49	Sitecheck Historical Maps	HistoricalMapswithSite	Polygon	No	No	150ha
13	Sitecheck Planning	PlansearchCommercial	Polygon	No	No	150ha
233	A4 plan - OS Large Scale Plot 1Ha	OSLargeScalePlot1Ha	Point & Polygon	No	No	1ha
851	A4 OS Large Scale Plot 4Ha	OSLargeScalePlot4Ha	Point or Polygon	No	No	4ha
712	Utilities Report Express Service Small	UtilitiesReport5DayServiceSmall	Polygon	No	No	>10ha/1400m POA
713	Utilities Report Premium Service Small	UtilitiesReport10DayServiceSmall	Polygon	No	No	>10ha/1400m POA
714	Utilities Report Standard Service Small	UtilitiesReport20DayServiceSmall	Polygon	No	No	>10ha/1400m POA
817	Utilities Report Express Service (without water company data) Small	UtilitiesReport5DayServiceSmallWoW	Polygon	No	No	>10ha/1400m POA

818	Utilities Report Premium Service (without water company data) Small	UtilitiesReport10DayServiceSmallWoW	Polygon	No	No	>10ha/1400m POA
7308	Utilities Report Standard Service with Overview Plan Small	UtilitiesDUOP20DayService	Polygon	No	No	>10ha/1400m POA
176	Sitecheck Combined Report	SitecheckCombinedReport	Polygon	No	No	40ha
4799	Energy and Infrastructure Report (formerly known as High Speed Two (HS2) Report)	Highspeed2	Polygon	No	No	150ha
6356	Sitecheck Combined Full Data Pack	SitecheckCombinedFullDataPack	Polygon	No	No	25ha
853	RiskView Residential (RVR)	LMKRVRresi	Polygon	No	No	2ha
10790	Landmark Coal	LandmarkCoal	Polygon	No	No	2ha
10791	Landmark CON29M	LandmarkCON29M	Polygon	No	No	2ha
10892	Landmark Commercial Chancel	LandmarkCommercialChancel	Polygon	No	No	200 acres
10792	Landmark Chancel (resi)	LandmarkChancel	Point or Polygon	No	No	2ha
10890	Landmark Commercial Coal	LandmarkCommercialCoal	Polygon	No	No	500 acres
10891	Landmark Commercial CON29M	LandmarkCommercialCON29M	Polygon	No	No	500 acres
10893	Climate Change Report - Residential	ClimateChangeResidential	Point or Polygon	No	No	10ha
10894	Climate Change Report - Commercial	ClimateChangeCommercial	Point or Polygon	No	No	500ha

NOTE: there should be no spaces in the XML Product Name and this is case sensitive.

Argyll Products:

PRODUCT KEY	PRODUCT NAME	XML PRODUCT NAME	Point or Polygon	' Insurance' required (section 4.2.1)	' AELQuestion Types' required? (section 4.2.3)	Max Site Size (hectares)
277	Site Solutions Commercial	SiteSolutionsCommercial	Polygon	No	Yes	250ha
281	Site Solutions Residence	SiteSolutionsResidence	Polygon	No	Yes	10ha
256	Flood Solutions Commercial	FloodSolutionsCommercial	Polygon	No	Yes	250ha
276	Site Solutions Combined	SiteSolutionsCombined	Polygon	No	Yes	300ha
254	Site Solutions Farm	EstateSiteSolutionsFarm	Polygon	No	Yes	250ha
6355	Site Solutions Highways	Highways	Polygon	No	Yes	15ha

4. 'OrderRequest' Elements

Element	Example	XSD	XML
UserName <i>Mandatory</i> – The user name provided by LIG when an account was set up.	YourUserNam e	<code><xs:element name="UserName" type="xs:string"></code> <code></xs:element></code>	<UserName> JASON </UserName>
Password <i>Mandatory</i> – The password provided by LIG when an account was set.	uat	<code><xs:element name="Password" type="xs:string"></code> <code></xs:element></code>	<Password> arGonaOut3 </Password>
Portfolio <i>Optional</i> – The account portfolio. This is provided by LIG when an account for ordering is set up, and although optional for legacy systems, it should be provided if known.	Landmark	<code><xs:element name="Portfolio" type="xs:string" minOccurs="0"></code> <code></xs:element></code>	<Portfolio> Landmark </Portfolio>
CustomerReference <i>Mandatory</i> – your reference and is displayed prominently in the report and delivery emails etc. It must be unique for each order.	ABC123	<code><xs:element name="CustomerReference" type="xs:string"></code> <code></xs:element></code>	<CustomerReference> ABC123 </CustomerReference>
PurchaseOrderReference <i>Optional</i> – The purchase order reference (if required) for the report.	123/order	<code><xs:element name="PurchaseOrderReference" type="xs:string" minOccurs="0"></code> <code></xs:element></code>	<PurchaseOrderReference> 123/order </PurchaseOrderReference>
InputMethod <i>Mandatory</i> – The input method for ordering the report. For xml orders, the input method is always 'XML'	XML	<code><xs:element name="InputMethod"></code> <code></xs:element></code>	<InputMethod> XML </InputMethod>
SiteAddress <i>Mandatory</i> – See section 4.1 below.		<code><xs:element name="SiteAddress" type="AddressType"></code> <code></xs:element></code>	

Element	Example	XSD	XML
SiteGeography <i>Mandatory</i>		<pre><xs:element name="SiteGeography" minOccurs="0"> <xs:complexType> <xs:choice> <xs:element ref="gml:Point" /> <xs:element ref="gml:Polygon" /> </xs:choice> </xs:complexType> </xs:element></pre>	<pre><SiteGeography> <gml:Point srsName="BNG"> <gml:coord> <gml:X>296755</gml:X> <gml:Y>92288</gml:Y> </gml:coord> </gml:Point> </SiteGeography></pre>

Element	Example	XSD	XML
			<div><SiteGeography> <gml:Polygon srsName="BNG"> <gml:outerBoundaryIs> <gml:LinearRing> <gml:coord> <gml:X>296646.5</gml:X> <gml:Y>92294.38</gml:Y> </gml:coord> <gml:coord> <gml:X>296693.36</gml:X> <gml:Y>92293.94</gml:Y> </gml:coord> <gml:coord> <gml:X>296693.8</gml:X> <gml:Y>92273.48</gml:Y> </gml:coord> <gml:coord> <gml:X>296646.5</gml:X> <gml:Y>92274.14</gml:Y> </gml:coord> <gml:coord> <gml:X>296646.5</gml:X> <gml:Y>92294.38</gml:Y> </gml:coord> </gml:LinearRing> </gml:outerBoundaryIs> </gml:Polygon> </SiteGeography></div>

Element	Example	XSD	XML
DisplayPolygons <i>Optional – these are only used for A4 plan products and are ignored for all other products.</i>		<pre> <xs:element name="DisplayPolygons" minOccurs="0" maxOccurs="99"> <xs:complexType> <xs:sequence> <xs:element name="Colour" minOccurs="0"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="red" /> <xs:enumeration value="green" /> <xs:enumeration value="blue" /> </xs:restriction> </xs:simpleType> </xs:element> <xs:choice> <xs:element ref="gml:Polygon" /> </xs:choice> <xs:element name="Label" type="xs:string" minOccurs="0" /> </xs:sequence> </xs:complexType> </xs:element> </pre>	<pre> <DisplayPolygons> <Colour>red</Colour> <gml:Polygon srsName="BNG"> <gml:outerBoundaryIs> <gml:LinearRing> <gml:coord> <gml:X>296646.5</gml:X> <gml:Y>92294.38</gml:Y> </gml:coord> <gml:coord> <gml:X>296693.36</gml:X> <gml:Y>92293.94</gml:Y> </gml:coord> <gml:coord> <gml:X>296693.8</gml:X> <gml:Y>92273.48</gml:Y> </gml:coord> <gml:coord> <gml:X>296646.5</gml:X> <gml:Y>92274.14</gml:Y> </gml:coord> <gml:coord> <gml:X>296646.5</gml:X> <gml:Y>92294.38</gml:Y> </gml:coord> </gml:LinearRing> </gml:outerBoundaryIs> </gml:Polygon> </DisplayPolygons> </pre>
OrderLineList <i>Mandatory – See section 4.2 below.</i>		<pre> <xs:element name="OrderLineList" maxOccurs="99"> </pre>	

4.1. 'AddressType' Elements

The site address for the report. Although only AddressLine1 is mandatory, as many fields as possible should be entered. Note that the maximum length of all the address lines is 50 characters apart from the postcode field which is limited to 8 characters. Any text over the field width limit will be truncated.

Element	Example	XSD	XML
AddressType <i>Mandatory</i>		<pre> <xs:complexType name="AddressType"> <xs:sequence> <xs:element name="AddressLine1" type="xs:string" /> <xs:element name="AddressLine2" type="xs:string" minOccurs="0" /> <xs:element name="AddressLine3" type="xs:string" minOccurs="0" /> <xs:element name="Town" type="xs:string" minOccurs="0" /> <xs:element name="County" type="xs:string" minOccurs="0" /> <xs:element name="PostCode" type="xs:string" minOccurs="0" /> <xs:element name="Country" type="xs:string" minOccurs="0" /> </xs:sequence> </xs:complexType> </pre>	<pre> <SiteAddress> <AddressLine1>5-7 Abbey Court</AddressLine1> <AddressLine2>Eagle Way</AddressLine2> <AddressLine3>Sowton</AddressLine3> <Town>Exeter</Town> <County>Devon</County> <PostCode>EX2 7HY</PostCode> <Country>UK</Country> </SiteAddress> </pre>
AddressLine1 <i>Mandatory</i>	5-7 Abbey Court	<pre> <xs:element name="AddressLine1" type="xs:string" /> </pre>	<pre> <AddressLine1>5-7 Abbey Court</AddressLine1> </pre>
AddressLine2 <i>Optional</i>	Eagle Way	<pre> <xs:element name="AddressLine2" type="xs:string" minOccurs="0" /> </pre>	<pre> <AddressLine2>Eagle Way</AddressLine2> </pre>
AddressLine3 <i>Optional</i>	Sowton	<pre> <xs:element name="AddressLine3" type="xs:string" minOccurs="0" /> </pre>	<pre> <AddressLine3>Sowton</AddressLine3> </pre>
Town <i>Optional</i>	Exeter	<pre> <xs:element name="Town" type="xs:string" minOccurs="0" /> </pre>	<pre> <Town>Exeter</Town> </pre>

Element	Example	XSD	XML
County <i>Optional</i>	Devon	<code><xs:element name="County" type="xs:string" minOccurs="0" /></code>	<code><County>Devon</County></code>
Postcode <i>Optional</i>	EX2 7HY	<code><xs:element name="PostCode" type="xs:string" minOccurs="0" /></code>	<code><PostCode>EX2 7HY</PostCode></code>
Country <i>Optional</i>	UK	<code><xs:element name="Country" type="xs:string" minOccurs="0" /></code>	<code><Country>UK</Country></code>

4.2. 'OrderLineList' Elements

LIG support many product types in one order – so you can request a HomecheckProfessional report and a Landmark Planning report for the same site, for example (see section 8.5). Some combinations are not allowed (see Section 8).

Element	Example	XSD	XML
ReportProduct <i>Mandatory</i> – The name of the report product required. <i>Note:</i> some products are dependant on additional information being provided.	Envirosearch Residential	<pre><xs:element name="ReportProduct" type="ReportProductType"> </xs:element></pre>	<pre><ReportProduct> <Type>EnvirosearchResidential</Type> </ReportProduct></pre>
OutputMethods <i>Standard</i> – Electronic output is mandatory. Options are email, FTP, XML and HTTP*. *A pre-determined url needs to be specified for HTTP delivery	Email	<pre><xs:element name="OutputMethods"> <xs:complexType> <xs:element name="Electronic" minOccurs="0"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="Email" /> <xs:enumeration value="FTP" /> <xs:enumeration value="XML" /> <xs:enumeration value="HTTP" /> </xs:restriction> </xs:simpleType> </xs:element> </xs:complexType> </xs:element></pre>	<pre><OutputMethods> <Electronic>Email</Electronic> </OutputMethods></pre>
Argyll Product Questions See section		<pre><xs:element name="Questions" minOccurs="0"> <xs:complexType> <xs:sequence> <xs:element name="AELSiteSolutionReport" minOccurs="0"> <xs:complexType></pre>	

Element	Example	XSD	XML
		<pre><xs:sequence> <xs:element name="Question" type="AELQuestionType" minOccurs="0" maxOccurs="unbounded" /> </xs:sequence> </xs:complexType> </xs:element> </xs:sequence> </xs:complexType> </xs:element></pre>	

4.2.1. 'AELQuestionType' Elements

Element	XSD	XML
AELQuestionType <i>Optional</i>	<pre><xs:complexType name="AELQuestionType"> <xs:sequence> <xs:element name="Answer" /> </xs:sequence> <xs:attribute name="type" type="AELQuestions" use="required" /> </xs:complexType> <xs:simpleType name="AELQuestions"> <xs:restriction base="xs:string"> xs:enumeration value="CurrentUse2" /> xs:enumeration value="YearsCurrentUse" /> xs:enumeration value="ProposedUse2" /> xs:enumeration value="ReportPreparedfor" /> xs:enumeration value="PlannedDevelopment" /> xs:enumeration value="TransactionalInformation" /> xs:enumeration value="PropertyTenure" /> xs:enumeration value="ClientName" /> xs:enumeration value="ClientEmail" /> xs:enumeration value="ClientAddress" /> <xs:enumeration value="RoadSearch" /> </xs:restriction> </xs:simpleType></pre>	

Question	XSD	XML
What is the current use of the site? (For a robust assessment, please specify the exact land use, i.e. petrol station/three storey office/storage of furniture. NO generic i.e. light industrial/commercial)	<code><xs:enumeration value="CurrentUse2" /></code>	<code><Question type="CurrentUse2"> <Answer>Petrol station</Answer> </Question></code>
What is the approximate age of the buildings on this site? <i>Note this really IS Building Age despite the name!</i>	<code><xs:enumeration value="YearsCurrentUse" /></code>	<code><Question type="YearsCurrentUse"> <Answer>15 years old</Answer> </Question></code> Not required for Site Solutions Combined, Site Solutions Commercial, Site Solutions Residence, Estate Site Solutions Farm, Estate Site Solutions Brief, Site Solutions Consult
What is the proposed use of the site? (please specify the exact use where known)	<code><xs:enumeration value="ProposedUse2" /></code>	<code><Question type="ProposedUse2"> <Answer>Light Industrial</Answer> </Question></code>
The company name of someone who can be contacted if further information is required.	<code><xs:enumeration value="ReportPreparedfor" /></code>	<code><Question type="ReportPreparedfor"> <Answer>The Solicitor Company</Answer> </Question></code>
Is this a planned Development?	<code><xs:enumeration value="PlannedDevelopment" /></code>	<code><Question type="PlannedDevelopment"> <Answer>Yes</Answer> </Question></code>
Name of someone who can be contacted if further information is required.	<code><xs:enumeration value="ClientName" /></code>	<code><Question type="ClientName"> <Answer>J Smith</Answer> </Question></code>

Question	XSD	XML
Telephone number of someone who can be contacted if further information is required.	<code><xs:enumeration value="ClientEmail" /></code>	<code><Question type="ClientEmail"></code> <code><Answer>01234 567890</Answer></code> <code></Question></code>
The address of someone who can be contacted if further information is required.	<code><xs:enumeration value="ClientAddress" /></code>	<code><Question type="ClientAddress"></code> <code><Answer>1 High Street, Newtown, AA1 1ZZ</Answer></code> <code></Question></code>
All roads and access ways abutting the property will be searched. Please list any additional requirements. <i>*Only Required for "Site Solutions – Highways" Report</i>	<code><xs:enumeration value="RoadSearch" /></code>	<code><Question type="RoadSearch"></code> <code><Answer>Please check Marsh Lane</Answer></code> <code></Question></code> <i>*Only Required for "Site Solutions – Highways" Report</i>

5. OrderRequestResponse Message

An acknowledgement to a placed order; known as 'OrderRequestResponse'. This is the reply from the server to client giving notice of a successfully received order, or a failure. IMPORTANT: it usually takes at least one minute for this response to be sent; it is recommended to wait 5 minutes before re-submitting an order.

- **OrderStatus** - The status of the order. For an OrderRequestResponse, the status will either be ORDER_RECIEVED [sic] or FAIL (with an ErrorMessage element).
- **OrderNumber** - The order number (provided by LIG) on the OrderRequestResponse, or OrderDelivery message types.
- **CustomerReference** - your reference for the report.
- **ThirdPartyReference** - The 3rd party reference provided by the client for the report.
- **OrderLineList** - LIG supports many product types in one order - so you can have an ESR and a PSR for the same site, for example.
- **OrderLineList /ReportProduct** - The report name for each order line.
- **OrderLineList /OrderLineNumber** - For multiple products on a message, each product is assigned a line number.
- **xmlOrderKey** - When an order is accepted, or has failed to validate (due to a bad postcode for example), then this key is provided by landmark. When reconstructing a message, the key may be passed in the OrderRequest and the existing order will be updated. Or this order key can be provided if you wish to update an existing order that has not yet been run. This is optional. The xmlOrderKey is returned in an OrderRequestResponse message, and must be provided by landmark - a client may not specify it for an initiating order

Below is an example of an OrderRequestResponse message:

```
<?xml version="1.0" encoding="UTF-8"?>
<Order>
  <OrderRequestResponse>
    <OrderStatus>
      <Status>ORDER_RECIEVED</Status>
    </OrderStatus>
    <OrderNumber>28489273</OrderNumber>
    <CustomerReference>ABC123</CustomerReference>
    <ThirdPartyReference/>
    <OrderLineList>
      <ReportProduct>
        <Type>EnvirosearchResidential</Type>
      </ReportProduct>
      <OrderLineKey>531550987</OrderLineKey>
      <OrderLineNumber>1</OrderLineNumber>
    </OrderLineList>
    <xmlOrderKey>1500377</xmlOrderKey>
  </OrderRequestResponse>
</Order>
```

6. Order Processing

The following section contains some rules and clarifications for the process of ordering via XML.

- The order request should be posted to:
www.landmarkinfo.co.uk/xmlorders3/external/XMLListenerServlet
- For each OrderRequest from a client, the server will reply with a single OrderRequestResponse. If the order has been successfully placed, the OrderRequestResponse will contain a status of ORDER_RECIEVED [sic]. If the order has failed for some reason, a status of FAIL will be sent, along with an error message.
- If an OrderRequestResponse is not received from the server, the client should assume that a communication failure has occurred, and attempt to resend the OrderRequest.
- Most validation happens after the XML order has been received and acknowledged. Any errors after receipt of your XML order will be notified to you by our Production team (orders@landmark.co.uk) for you to action. **Please nominate an email address for this purpose.**
- LIG's systems run on a queued batch system. Once a successful order request is received, it will be placed in the queue to be run. The client shall not wait for this report to be generated – the communication over the HTTP socket will only consist of two messages – an OrderRequest, and an OrderRequestResponse. The report will be delivered to a pre-defined email address; however, other delivery methods may be available.
- An OrderRequest message has two main forms of free text which the client may populate to identify messages:
 - CustomerReference – this should be the reference for the transaction between the client and server (LIG's customer [you] and LIG [us]). It must be unique for each XML order.
 - PurchaseOrderReference [optional] – an alternative reference.
- LIG xml orders is not a SOAP web service. It expects xml messages delivered via HTTP and cannot understand SOAP messages. The XML message must be posted to the destination url specified above. Note also that no request parameters are expected. The body of the http request must only consist of an xml message containing the details of the intended order.
- The server will always attempt to reflect any errors thrown during a request in an OrderRequestResponse message that gives the error – i.e. always provide an HTTP status of 200 with an error within the XML sent. However, unexpected IO/comms errors may occur, and the client should be prepared to catch any such IO errors, or HTTP status 500 errors.
- The client should validate any requests by parsing the XML message against the server's schema: http://www.landmarkinfo.co.uk/xmlorders3/lig_xml_orders.xsd . The client should always validate against this online version rather than a local copy on the client's server. If the schema is not available, then XML orders will not be available either, and a major outage must have occurred. Unplanned outages are very rare; LIG systems are robust and reliable, using clustered servers.
- The schema employs the GML schema for describing point and polygon data in the site geography. Note that if ordering a polygon based product, the GML spec defines a polygon as having a minimum of four points (a triangle where the first and last points are equal).

7. OrderDelivery Message

This element is used for sending a completed or partially complete report from the server to the client via HTTP.

OrderStatus - The status of the order. For an OrderDelivery, the status will be ORDER_COMPLETED, or (very rarely) ORDER_COMPLETED_REREFERRED.

OrderNumber - The order number (provided by LIG) on the OrderRequestResponse, or OrderDelivery message types. ORDER_COMPLETED_REREFERRED happens when we have sent a 'further action' report and then your customer has submitted further information (up to 6 months later) that has led to us being able to issue a 'pass' certificate (as a second send to you).

- **CustomerReference** - Your reference for the report.
 - **ThirdPartyReference** - The 3rd party reference provided by the client for the report.
 - **OrderLineList** - LIG supports many product types in one order - so you can have an Envirosearch Residential and a Landmark Planning for the same site, for example.
 - **OrderLineList /FileKey**
 - **OrderLineList /OutputFilename** - the text we would use to name the PDF.
 - **OrderLineList /OrderLineNumber** - For multiple products on a message, each product is assigned a line number.
 - **OrderLineList /ReportProduct** - The report name for each order line
 - **OrderLineList /ReportData** - The report type is typically PDF, and the actual base 64 encoded data is contained within the Data element
-
- There may be multiple OrderDelivery messages from the server. For example, if an OrderRequest contained an instruction to generate an Envirosearch Residential and a Landmark Planning, this would result in two OrderDelivery messages being generated. Each OrderDelivery message can be identified by the client via a customer reference, a 3rd party customer reference, or an order number. These are the three main forms of identification that are sent.
 - An OrderDelivery will always populate the fields CustomerReference, OrderNumber, OrderLineNumber, and ReportProduct. This allows the client to uniquely identify the order.

The xml would look something like this example:

```
<?xml version="1.0" encoding="UTF-8"?><Order xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:gml="http://www.opengis.net/gml" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance"
xsi:noNamespaceSchemaLocation="http://www.landmarkinfo.co.uk/xmlorders3/lig_xml_orders.x
sd">
  <OrderDelivery>
    <OrderStatus>
      <Status>ORDER_COMPLETED</Status>
    </OrderStatus>
    <OrderNumber>61999999</OrderNumber>
    <CustomerReference>50 Bromley Road-BROMLEY - 20625</CustomerReference>
    <ThirdPartyReference>Not Supplied</ThirdPartyReference>
    <OrderLineList>
      <OrderLineKey>799999999</OrderLineKey>
      <FileKey>128208960</FileKey>
      <OutputFilename>Test_PSP_1.pdf</OutputFilename>
      <OrderLineNumber>1</OrderLineNumber>
      <ReportProduct>
        <Type>Plansearch Plus</Type>
      </ReportProduct>
      <ReportData>
        <ReportType>PDF</ReportType>
        <Data> .... embedded PDF data here.....</Data>
      </ReportData>
    </OrderLineList>
  </OrderDelivery>
</Order>
```

Note: the <ReportProduct><Type> field here is not the same as the <ReportProduct><Type> field in the order placement XML; for some products this can be numeric.

8. Invalid Product Combinations

The following product combinations can't be ordered through XML orders:

Product Key	Product Name	Excluded Product Key	Excluded Product (can't be ordered with)
13	Sitecheck Planning	167	Landmark Planning
167	Landmark Planning	13	Sitecheck Planning
1	Envirosearch Residential	15 853	Homecheck Environmental Report RiskView Residential
15	Homecheck Environmental Report	1 853	Envirosearch Residential RiskView Residential
853	RiskView Residential	1 15 227 4799	Envirosearch Residential Homecheck Environmental Report Landmark Flood Energy & Infrastructure
4799	Energy and Infrastructure	853	RiskView Residential
227	Landmark Flood	853	RiskView Residential
172	Sitecheck Assess	176	Sitecheck Combined
176	Sitecheck Combined	172 381 6356	Sitecheck Assess Sitecheck Flood Sitecheck Combined Full Data Pack
6356	Sitecheck Combined Full Data Pack	172 381 176	Sitecheck Assess Sitecheck Flood Sitecheck Combined

If an order is submitted with one of these invalid product combinations the whole order will error.

9. Example Orders

9.1. Commercial Product

Sitecheck Assess

```
<?xml version="1.0" encoding="UTF-8" ?>
<Order xmlns:gml="http://www.opengis.net/gml"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="http://www.landmarkinfo.co.uk/xmlorders3/lig_xml_order
s.xsd">
  <OrderRequest>
    <UserName>YourUserName</UserName>
    <Password>uat</Password>
    <Portfolio>Landmark</Portfolio>
    <CustomerReference>ABC123</CustomerReference>
    <ThirdPartyReference>ABC123</ThirdPartyReference>
    <InputMethod>XML</InputMethod>
    <SiteAddress>
      <AddressLine1>5-7 Abbey Court</AddressLine1>
      <AddressLine2>Eagle Way</AddressLine2>
      <AddressLine3>Sowton</AddressLine3>
      <Town>Exeter</Town>
      <PostCode>EX2 7HY</PostCode>
    </SiteAddress>
    <SiteGeography>
      <gml:Polygon srsName="BNG">
        <gml:outerBoundaryIs>
          <gml:LinearRing>
            <gml:coord>
              <gml:X>296646.5</gml:X>
              <gml:Y>92294.38</gml:Y>
            </gml:coord>
            <gml:coord>
              <gml:X>296693.36</gml:X>
              <gml:Y>92293.94</gml:Y>
            </gml:coord>
            <gml:coord>
              <gml:X>296693.8</gml:X>
              <gml:Y>92273.48</gml:Y>
            </gml:coord>
            <gml:coord>
              <gml:X>296646.5</gml:X>
              <gml:Y>92274.14</gml:Y>
            </gml:coord>
            <gml:coord>
              <gml:X>296646.5</gml:X>
              <gml:Y>92294.38</gml:Y>
            </gml:coord>
          </gml:LinearRing>
        </gml:outerBoundaryIs>
      </gml:Polygon>
    </SiteGeography>
  </OrderRequest>
</Order>
```



```

</gml:outerBoundaryIs>
</gml:Polygon>
</SiteGeography>
<OrderLineList>
  <ReportProduct>
    <Type>SitecheckAssess</Type>
  </ReportProduct>
  <OutputMethods>
    <Electronic>Email</Electronic>
  </OutputMethods>
</OrderLineList>
</OrderRequest>
</Order>

```

9.2. Commercial Product with Questions

SiteSolutions Commercial

```

<?xml version="1.0" encoding="UTF-8"?>
<Order xmlns:gml="http://www.opengis.net/gml"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:noNamespaceSchemaLocation="http://www.landmarkinfo.co.uk/xmlorders3/lig_xml_order
  s.xsd">
  <OrderRequest>
    <UserName>YourUserName</UserName>
    <Password>uat</Password>
    <Portfolio>Landmark</Portfolio>
    <CustomerReference>ABC123</CustomerReference>
    <ThirdPartyReference>ABC123</ThirdPartyReference>
    <InputMethod>XML</InputMethod>
    <SiteAddress>
      <AddressLine1>5-7 Abbey Court</AddressLine1>
      <AddressLine2>Eagle Way</AddressLine2>
      <AddressLine3>Sowton</AddressLine3>
      <Town>Exeter</Town>
      <PostCode>EX2 7HY</PostCode>
    </SiteAddress>
    <SiteGeography>
      <gml:Polygon srsName="BNG">
        <gml:outerBoundaryIs>
          <gml:LinearRing>
            <gml:coord>
              <gml:X>296646.5</gml:X>
              <gml:Y>92294.38</gml:Y>
            </gml:coord>
            <gml:coord>
              <gml:X>296693.36</gml:X>
              <gml:Y>92293.94</gml:Y>
            </gml:coord>
            <gml:coord>
              <gml:X>296693.8</gml:X>

```

```

    <gml:Y>92273.48</gml:Y>
  </gml:coord>
  <gml:coord>
    <gml:X>296646.5</gml:X>
    <gml:Y>92274.14</gml:Y>
  </gml:coord>
  <gml:coord>
    <gml:X>296646.5</gml:X>
    <gml:Y>92294.38</gml:Y>
  </gml:coord>
</gml:LinearRing>
</gml:outerBoundaryIs>
</gml:Polygon>
</SiteGeography>
<OrderLineList>
  <ReportProduct>
    <Type>SiteSolutionsCommercial</Type>
  </ReportProduct>
  <OutputMethods>
    <Electronic>Email</Electronic>
  </OutputMethods>
  <Questions>
    <AELSiteSolutionReport>
      <Question type="CurrentUse2">
        <Answer>currentuse</Answer>
      </Question>
      <Question type="PlannedDevelopment">
        <Answer>planned development</Answer>
      </Question>
      <Question type="PropertyTenure">
        <Answer>Freehold</Answer>
      </Question>
      <Question type="ProposedUse2">
        <Answer>proposed use</Answer>
      </Question>
      <Question type="TransactionalInformation">
        <Answer>purchase</Answer>
      </Question>
      <Question type="ReportPreparedFor">
        <Answer>customer</Answer>
      </Question>
      <Question type="ClientName">
        <Answer>J Smith</Answer>
      </Question>
      <Question type="ClientEmail">
        <Answer>example@example.com</Answer>
      </Question>
    </AELSiteSolutionReport>
  </Questions>
</OrderLineList>
</OrderRequest>
</Order>

```

9.3. Residential Product

Envirosearch Residential

```
<?xml version="1.0" encoding="UTF-8" ?>
<Order xmlns:gml="http://www.opengis.net/gml"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="http://www.landmarkinfo.co.uk/xmlorders3/lig_xml_order
s.xsd">
  <OrderRequest>
    <UserName>YourUserName</UserName>
    <Password>uat</Password>
    <Portfolio>Landmark</Portfolio>
    <CustomerReference>ABC123</CustomerReference>
    <ThirdPartyReference>ABC123</ThirdPartyReference>
    <InputMethod>XML</InputMethod>
    <SiteAddress>
      <AddressLine1>5-7 Abbey Court</AddressLine1>
      <AddressLine2>Eagle Way</AddressLine2>
      <AddressLine3>Sowton</AddressLine3>
      <Town>Exeter</Town>
      <PostCode>EX2 7HY</PostCode>
    </SiteAddress>
    <SiteGeography>
      <gml:Point srsName="BNG">
        <gml:coord>
          <gml:X>296755</gml:X>
          <gml:Y>92288</gml:Y>
        </gml:coord>
      </gml:Point>
    </SiteGeography>
    <OrderLineList>
      <ReportProduct>
        <Type>EnvirosearchResidential</Type>
      </ReportProduct>
      <OutputMethods>
        <Electronic>Email</Electronic>
      </OutputMethods>
    </OrderLineList>
  </OrderRequest>
</Order>
```

```
<?xml version="1.0" encoding="UTF-8" ?>
<Order xmlns:gml="http://www.opengis.net/gml" xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="http://www.landmarkinfo.co.uk/xmlorders3/lig_xml_orders.xsd">
  <OrderRequest>
    <UserName>YourUserName</UserName>
    <Password>uat</Password>
    <Portfolio>Landmark</Portfolio>
    <CustomerReference>ABC123CP210421-2</CustomerReference>
    <ThirdPartyReference>ABC123</ThirdPartyReference>
    <InputMethod>XML</InputMethod>
    <SiteAddress>
      <AddressLine1>5-7 Abbey Court</AddressLine1>
      <AddressLine2>Eagle Way</AddressLine2>
      <AddressLine3>Sowton</AddressLine3>
      <Town>Exeter</Town>
      <PostCode>EX2 7HY</PostCode>
    </SiteAddress>
    <SiteGeography>
      <gml:Polygon srsName="BNG">
        <gml:outerBoundaryIs>
          <gml:LinearRing>
            <gml:coord>
              <gml:X>296646.5</gml:X>
              <gml:Y>92294.38</gml:Y>
            </gml:coord>
            <gml:coord>
              <gml:X>296693.36</gml:X>
              <gml:Y>92293.94</gml:Y>
            </gml:coord>
            <gml:coord>
              <gml:X>296693.8</gml:X>
              <gml:Y>92273.48</gml:Y>
            </gml:coord>
            <gml:coord>
              <gml:X>296646.5</gml:X>
              <gml:Y>92274.14</gml:Y>
            </gml:coord>
            <gml:coord>
              <gml:X>296646.5</gml:X>
              <gml:Y>92294.38</gml:Y>
            </gml:coord>
          </gml:LinearRing>
        </gml:outerBoundaryIs>
      </gml:Polygon>
    </SiteGeography>
    <DisplayPolygons>
      <Colour>blue</Colour>
      <gml:Polygon srsName="BNG">
        <gml:outerBoundaryIs>
          <gml:LinearRing>
            <gml:coord>
```

```

    <gml:X>296646.5</gml:X>
    <gml:Y>92294.38</gml:Y>
  </gml:coord>
  <gml:coord>
    <gml:X>296698.36</gml:X>
    <gml:Y>92283.94</gml:Y>
  </gml:coord>
  <gml:coord>
    <gml:X>296693.8</gml:X>
    <gml:Y>92273.48</gml:Y>
  </gml:coord>
  <gml:coord>
    <gml:X>296646.5</gml:X>
    <gml:Y>92274.14</gml:Y>
  </gml:coord>
  <gml:coord>
    <gml:X>296646.5</gml:X>
    <gml:Y>92294.38</gml:Y>
  </gml:coord>
</gml:LinearRing>
</gml:outerBoundaryIs>
</gml:Polygon>
</DisplayPolygons>
<OrderLineList>
  <ReportProduct>
    <Type>OSLargeScalePlot1Ha</Type>
  </ReportProduct>
  <OutputMethods>
    <Electronic>Email</Electronic>
  </OutputMethods>
</OrderLineList>
</OrderRequest>
</Order>

```

9.5. Two Products in one order

Homecheck Professional & Landmark Planning

```

<?xml version="1.0" encoding="UTF-8" ?>
<Order xmlns:gml="http://www.opengis.net/gml"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:noNamespaceSchemaLocation="http://www.landmarkinfo.co.uk/xmlorders3/lig_xml_order
s.xsd">
  <OrderRequest>
    <UserName>YourUserName</UserName>
    <Password>uat</Password>
    <Portfolio>Landmark</Portfolio>
    <CustomerReference>ABC123</CustomerReference>
    <ThirdPartyReference>ABC123</ThirdPartyReference>
    <InputMethod>XML</InputMethod>
    <SiteAddress>
      <AddressLine1>5-7 Abbey Court</AddressLine1>

```

```
<AddressLine2>Eagle Way</AddressLine2>
<AddressLine3>Sowton</AddressLine3>
<Town>Exeter</Town>
<PostCode>EX2 7HY</PostCode>
</SiteAddress>
<SiteGeography>
  <gml:Point srsName="BNG">
    <gml:coord>
      <gml:X>296755</gml:X>
      <gml:Y>92288</gml:Y>
    </gml:coord>
  </gml:Point>
</SiteGeography>
<OrderLineList>
  <ReportProduct>
    <Type>PlansearchPlus</Type>
  </ReportProduct>
  <OutputMethods>
    <Electronic>Email</Electronic>
  </OutputMethods>
</OrderLineList>
<OrderLineList>
  <ReportProduct>
    <Type>HomecheckProfessional</Type>
  </ReportProduct>
  <OutputMethods>
    <Electronic>Email</Electronic>
  </OutputMethods>
</OrderLineList>
</OrderRequest>
</Order>
```