HM Land Registry

**Business Gateway
Developer pack**

Schema explain

Search of the index map – SIM V2.1

Data Input Field (from LR Test Harness)	Extract of relevant code from Schema	Description	Mandatory	Min Value	Max Value	Has a pattern constraint	XML Datatype
User Credentials							
User Id							
Password							
Locale							

RequestSearchOfIndexMapV2_1	`<xs:complexType`
	`        name="`**`RequestSearchOfIndexMapV2_1Type`**`">`
	`    <xs:sequence>`
	`        <xs:element name="`**`ID`**`"`
	`                type="`**`Q1IdentifierType`**`"`
	`                minOccurs="1" maxOccurs="1" />`
	`        <xs:element name="`**`Product`**`"`
	`                type="`**`Q1ProductType`**`"`
	`                minOccurs="1" maxOccurs="1">`
	
	`  <xs:element name="`**`SearchOfIndexMap`**`"`
	`        type="`**`Q1SearchOfIndexMapType`**`"`
	`     minOccurs="1" maxOccurs="1">`
	
	`<xs:element name="`**`AlternativeDespatchDetails`**`"`
	`        type="`**`Q1AlternativeDespatchDetailsType`**`"`
	`     minOccurs="0" maxOccurs="1" />`
	
	`<xs:complexType name="`**`Q1SearchOfIndexMapType`**`">`
	`        <xs:element name="`**`WithoutAttachedPlan`**`"`
	`                type="`**`Q1WithoutAttachedPlanType`**`"`
	`                minOccurs="1" maxOccurs="1" />`
	`        <xs:element name="`**`WithAttachedPlan`**`"`
	`                type="`**`Q1WithAttachedPlanType`**`"`
	`                minOccurs="1" maxOccurs="1" />`
	
	`<xs:complexType name="`**`Q1WithAttachedPlanType`**`">`
	`    <xs:sequence>`
	`        <xs:element name="`**`Plan`**`"`
	`                type="`**`Q1PlanType`**`"`
	`             minOccurs="1"  maxOccurs="1" />`
	`        <xs:element name="`**`WithPlanAddressDetails`**`"`
	
	`type="`**`Q1WithPlanAddressDetailsType`**`"`
	`                minOccurs="1" maxOccurs="1" />`
	
	`<xs:complexType`
	`name="`**`Q1WithoutAttachedPlanType`**`">`
	`    <xs:sequence>`
	`            <xs:element`
	`name="`**`WithoutPlanAddressDetails`**`"`
	
	`type="`**`Q1WithoutPlanAddressDetailsType`**`"`
	`                    minOccurs="1" maxOccurs="1" />`
		Main element of the schema, creating a message id and a product type to carry the necessary data for the SIM.
		
		NOTE: The address elements are only explained once.					

Data Input Field (from LR Test Harness)	Extract of relevant code from Schema	Description	Mandatory	Min Value	Max Value	Has a pattern constraint	XML Datatype
	```<xs:complexType name="Q1WithoutPlanAddressDetailsType"> <xs:choice> <xs:element name="AddressWithPostcode" type="Q1AddressWithPostcodeType" minOccurs="0" maxOccurs="1" /> <xs:element name="AddressWithoutPostcode" type="Q1WithoutPlanWithoutPostcodeType" minOccurs="0" maxOccurs="1" /> <xs:complexType name="Q1WithPlanAddressDetailsType"> <xs:choice> <xs:element name="AddressWithPostcode" type="Q1AddressWithPostcodeType" minOccurs="1" maxOccurs="1" /> <xs:element name="AddressWithoutPostcode" type="Q1WithPlanWithoutPostcodeType" minOccurs="1" maxOccurs="1" />```						
Message Id	```<xs:complexType name="Q1IdentifierType"> <xs:sequence> <xs:element name="MessageID" type="Q1TextType" minOccurs="1" maxOccurs="1"> <xs:annotation> <xs:documentation>A character string (i.e. a finite set of characters) generally in the form of words of a language. <xs:complexType name="Q1TextType"> <xs:annotation> <xs:documentation>A character string (i.e. a finite set of characters) generally in the form of words of a language. </xs:documentation> </xs:annotation> <xs:simpleContent> <xs:extension base="Q1TextContentType" /> <xs:simpleType name="Q1TextContentType"> <xs:restriction base="xs:string"> <xs:minLength value="5" /> <xs:maxLength value="50" />```	Each application must have a message id. There can only be one message Id for each application. The message Id is a string with a minimum length of 5 characters and a maximum length of 50 characters. The message id has a constraint on its pattern value [a-zA-Z0-9][a-zA-Z0-9\-]* This constrains the message id to begin with a-z (lowercase), A-Z(uppercase) or 0-9 and can then be followed with a-z (lowercase), A-Z(uppercase) , 0-9 or a hyphen (as long as the input meets the field's length criteria). All of the XML elements that are relevant for the message id are shown, text in bold to help show the links within the XML.	Y	5	50	Y	xs:string

Data Input Field (from LR Test Harness)	Extract of relevant code from Schema	Description	Mandatory	Min Value	Max Value	Has a pattern constraint	XML Datatype
	`<xs:pattern value="[a-zA-Z0-9][a-zA-Z0-9\-]*" />` `</xs:restriction>`						

Data Input Field (from LR Test Harness)	Extract of relevant code from Schema	Description	Mandatory	Min Value	Max Value	Has a pattern constraint	XML Datatype

Gross Price Amount	```xml
	<xs:element name="ExpectedPrice"
	        type="Q1ExpectedPriceType"
	        minOccurs="0" maxOccurs="1">
	
	<xs:complexType name="Q1ExpectedPriceType">
	        <xs:element name="GrossPriceAmount"
	                type="AmountType"
	                minOccurs="0" maxOccurs="1">
	                <xs:annotation>
	                        <xs:documentation>The gross
	price is the price
	                                including the VAT. If
	the VAT is zero then
	                                the Gross and Net
	Price will be the same
	                        </xs:documentation>
	
	        <xs:element name="NetPriceAmount"
	                type="AmountType"
	                minOccurs="0" maxOccurs="1">
	                <xs:annotation>
	                        <xs:documentation>The Net
	Price is the amount
	                                before the VAT
	is added on. If the VAT
	                                is zero then the
	Gross and Net Price
	                                will be the same
	
	        <xs:element name="VATAmount"
	                type="AmountType"
	                minOccurs="0" maxOccurs="1">
	                <xs:annotation>
	                        <xs:documentation>This is the
	amount of the VAT
	
	<xs:complexType name="AmountType">
	        <xs:annotation>
	                <xs:documentation>A number of monetary
	units
	                                specified in a currency
	where the unit of the
	                                currency is explicit or
	implied.
	                </xs:documentation>
	<xs:simpleContent>
	        <xs:extension base="xs:decimal">
	``
		Carries the customers expected fee value.
		
		NetPriceAmount and VATAmount are not currently used.
							xs:decimal

Data Input Field (from LR Test Harness)	Extract of relevant code from Schema	Description	Mandatory	Min Value	Max Value	Has a pattern constraint	XML Datatype

Continue If Actual Fee Exceeds Expected Fee Indicator	```xml
	<xs:element name=
	
	"ContinueIfActualFeeExceedsExpectedFeeIndicator"
	    type="IndicatorType"
	    minOccurs="1" maxOccurs="1">
	        <xs:documentation> A list of two
	mutually exclusive
	                          Boolean values
	that express the
	                          only possible
	states of a Property.
	
	<xs:complexType name="IndicatorType">
	    <xs:annotation>
	        <xs:documentation>A list of two
	mutually exclusive
	                          Boolean values that
	express the only
	                          possible states of a
	Property.
	<xs:simpleContent>
	    <xs:extension base="xs:boolean" />
	</xs:simpleContent>
	``
		The documentation text does not clearly explain its element.
		
		If true, tells LR to continue with search even if the actual cost of the search is greater than the cost expected by the CMS.
		
		If false and the actual fee is greater than the fee input by the customer an error message will be returned and the search will not be performed.
			Y				xs:boolean

External Reference	```xml
	<xs:element name="ExternalReference"
	    type="Q1ExternalReferenceType"
	    minOccurs="1" maxOccurs="1">
	        <xs:documentation>Reference
	associated with a
	              case in Case Management
	System
	
	<xs:complexType name="Q1ExternalReferenceType">
	    <xs:documentation>A unique reference
	given to identify
	              a particular request, order or
	instruction in the
	              system of the organisation
	allocating it with the
	              ability to associate the name
	of the
	              Company that has allocated it.
	
	<xs:sequence>
	    <xs:element name="Reference"
	        type="ReferenceTextContentType"
	        minOccurs="1" maxOccurs="1">
	        <xs:documentation>A unique reference
	given to
	              identify a particular
	request, order or instruction
	              in the system of the
	organisation allocating it.
	
	<xs:simpleType name="ReferenceTextContentType">
	    <xs:restriction base="xs:string">
	``
		To carry the external reference to LR, external ref is created by the CMS.	Y	1	25	Y	xs:string

Data Input Field (from LR Test Harness)	Extract of relevant code from Schema	Description	Mandatory	Min Value	Max Value	Has a pattern constraint	XML Datatype

	`<xs:minLength value="1" />`
	`<xs:maxLength value="25" />`
	`<xs:pattern value="[A-Za-z0-`
	`9\s~!"@#$%'\(\)\*\+,\-`
	
	`\./:;=>\?\[\\\]_\{\}\^£]*" />`
	`</xs:restriction>`
	`</xs:simpleType>`						

Data Input Field (from LR Test Harness)	Extract of relevant code from Schema	Description	Mandatory	Min Value	Max Value	Has a pattern constraint	XML Datatype

Customer Reference	`<xs:element name="CustomerReference"`
	`        type="Q1CustomerReferenceType"`
	`        minOccurs="1" maxOccurs="1">`
	`          <xs:documentation>Reference of the person for`
	`                              whom the remortgage is performed.`
	
	`<xs:complexType name="Q1CustomerReferenceType">`
	`        <xs:documentation>Provides a unique reference to`
	`                identify a particular request, order or instruction`
	`                or object in the system of the organisation`
	`                allocating it.`
	
	`  <xs:sequence>`
	`     <xs:element name="Reference"`
	`            type="ReferenceTextContentType"`
	`        minOccurs="1"  maxOccurs="1">`
	`        <xs:documentation>A unique reference given to`
	`                    identify a particular request, order or instruction`
	`                    in the system of the organisation allocating`
	`                    it with the ability to associate the name of the`
	`                    Company that has allocated it.`
	
	`<xs:simpleType name="ReferenceTextContentType">`
	`     <xs:restriction base="xs:string">`
	`     <xs:minLength value="1" />`
	`     <xs:maxLength value="25" />`
	`     <xs:pattern value="[A-Za-z0-9\s~!"@#$%'\(\)\*\+,\-`
	`\.\/:;=>\?\[\\\]_\{\}\^£]*" />`
	`     </xs:restriction>`
	`</xs:simpleType>`
		To carry the Customer reference to LR, customer ref is created/provided by the CMS.	Y	1	25	Y	xs:string

Data Input Field (from LR Test Harness)	Extract of relevant code from Schema	Description	Mandatory	Min Value	Max Value	Has a pattern constraint	XML Datatype

Contact Name	```xml
	<xs:element name="Contact"
	        type="Q1ContactType" minOccurs="1"
	        maxOccurs="unbounded">
	            <xs:documentation>The information
	relevant to a
	                        person or organization that
	acts as a
	                        point of contact with
	another person or
	
	organization.</xs:documentation>
	
	<xs:complexType name="Q1ContactType">
	            <xs:documentation>The information
	relevant to a
	                        person or organization that
	acts as a
	                        point of contact with
	another person or
	
	organization.</xs:documentation>
	
	                <xs:element name="Name"
	                        type="Q3TextType"
	                        minOccurs="1" maxOccurs="1">
	            <xs:documentation>The name of this
	contact person
	                                            or
	department.
	
	<xs:complexType name="Q3TextType">
	            <xs:documentation>A character string
	(i.e. a finite set
	                                            of
	characters) generally in the form
	                                            of
	words of a language.
	<xs:simpleContent>
	    <xs:extension base="Q3TextContentType" />
	
	<xs:simpleType name="Q3TextContentType">
	    <xs:restriction base="xs:string">
	    <xs:pattern value=".*\S.*"/>
	    </xs:restriction>
	``
		Carries the contact name of the person sending the request for OS.	Y			Y	xs:string

Data Input Field (from LR Test Harness)	Extract of relevant code from Schema	Description	Mandatory	Min Value	Max Value	Has a pattern constraint	XML Datatype
Telephone Number	```</xs:element> <xs:element name="Communication" type="Q1CommunicationType" minOccurs="1" maxOccurs="1"> <xs:documentation>The information relevant to methods of communication for this Contact. <xs:complexType name="Q1CommunicationType"> <xs:documentation>Provides details of any other form of communication <xs:element name="Telephone" type="Q3TextType" minOccurs="1" maxOccurs="1"> <xs:complexType name="Q3TextType"> <xs:documentation>A character string (i.e. a finite set of characters) generally in the form of words of a language. <xs:simpleContent> <xs:extension base="Q3TextContentType" /> <xs:simpleType name="Q3TextContentType"> <xs:restriction base="xs:string"> <xs:pattern value=".*\S.*"/> </xs:restriction> </xs:simpleType>```	Carries the telephone number of the person submitting the application	Y			Y	xs:string
SIM - No Attachment; No Postcode	```<xs:complexType name= "Q1WithoutPlanWithoutPostcodeType"> <xs:sequence>```	This type is the overall container for sending a request without a plan and without a postcode					
SIM with Attachment; No Postcode	```<xs:complexType name= "Q1WithPlanWithoutPostcodeType"> <xs:sequence>```	This type is the overall container for sending a request with a plan but without a postcode					

Data Input Field (from LR Test Harness)	Extract of relevant code from Schema	Description	Mandatory	Min Value	Max Value	Has a pattern constraint	XML Datatype

Attachment	`<xs:complexType name="Q1PlanType">`
	`    <xs:element name="PlanDetailsAttachment"`
	`        type="Q1PlanDetailsAttachmentType"`
	`        minOccurs="1" maxOccurs="1">`
	
	`<xs:complexType`
	`name="Q1PlanDetailsAttachmentType">`
	`    <xs:element name="EmbeddedFileBinaryObject"`
	`        type="BinaryObjectType"`
	`        minOccurs="1" maxOccurs="1">`
	
	`<xs:complexType name="BinaryObjectType">`
	`        <xs:documentation>A set of finite-`
	`length sequences`
	`                                    of`
	`binary octets.`
	
	`<xs:simpleContent>`
	`    <xs:extension base="xs:base64Binary">`
	`    <xs:attribute name="filename"`
	`                        type="xs:string"`
	`use="optional">`
	`    <xs:annotation>`
	`    <xs:documentation> Must be the full`
	`filename including`
	`                        the extension`
	`(Reference IETF RFC 2045,`
	`                    2046, 2047)`
		These elements carry the file upload					xs:base64Binary

Identifier	`<xs:element name="Title"`
	`        type="Q3TextType"`
	`        minOccurs="0" maxOccurs="1">`
	`        <xs:documentation>Title or Caption for`
	`the attached`
	`                                file`
	`or document`
	
	`<xs:complexType name="Q3TextType">`
	`        <xs:documentation>A character string`
	`(i.e. a finite set of`
	`characters) generally in the form of`
	`                                words of a`
	`language.`
	`<xs:simpleContent>`
	`    <xs:extension base="Q3TextContentType" />`
	`    </xs:simpleContent>`
	`</xs:complexType>`
	
	`<xs:simpleType name="Q3TextContentType">`
	`    <xs:restriction base="xs:string">`
	`    <xs:pattern value=".*\S.*"/>`
	`    </xs:restriction>`
	`</xs:simpleType>`
		Carries the title/description of the file uploaded				Y	xs:string

Local Authority	`This set of elements/attributes is used with` `either of the SIM with No Postcode types above`						

Data Input Field (from LR Test Harness)	Extract of relevant code from Schema	Description	Mandatory	Min Value	Max Value	Has a pattern constraint	XML Datatype
Property Identifier	```<xs:element name="PropertyIdentifier"``` ``` type="Q1Len50TextType"``` ``` minOccurs="1" maxOccurs="1">``` ``` <xs:documentation>This field could be a Land``` ``` Identifier, House Number or House Name e.g.``` ``` 'Land to the left of 15 The Mews'``` ``` <xs:complexType name="Q1Len50TextType">``` ``` <xs:annotation>``` ``` <xs:documentation>A character string (i.e. a finite set``` ``` of``` ``` characters) generally in the form``` ``` of``` ``` words of a language.``` ``` <xs:simpleContent>``` ``` <xs:extension base="Q1Len50TextContentType" />``` ``` <xs:simpleType name="Q1Len50TextContentType">``` ``` <xs:restriction base="xs:string">``` ``` <xs:minLength value="1" />``` ``` <xs:maxLength value="50" />``` ``` <xs:pattern value=".*\S.*"/>``` ``` </xs:restriction>```	House number or name carried by this element	Y	1	50	Y	xs:string
Sub Building Name	```<xs:element name="SubBuildingName"``` ``` type="Q1Len100TextType"``` ``` minOccurs="0" maxOccurs="1">``` ``` <xs:documentation>A character string (i.e. a finite set``` ``` of``` ``` characters) generally in the form``` ``` of``` ``` words of a language.``` ``` </xs:element>``` ``` <xs:complexType name="Q1Len100TextType">``` ``` <xs:documentation>A character string (i.e. a finite set``` ``` of``` ``` characters) generally in the for``` ``` of words``` ``` of a language.``` ``` <xs:simpleContent>``` ``` <xs:extension base="Q1Len100TextContentType" />``` ``` </xs:simpleContent>``` ``` </xs:complexType>``` ``` <xs:simpleType name="Q1Len100TextContentType">``` ``` <xs:restriction base="xs:string">```	To carry the Sub building name, eg: Purple Brick Building,		1	100	Y	xs:string

Data Input Field (from LR Test Harness)	Extract of relevant code from Schema	Description	Mandatory	Min Value	Max Value	Has a pattern constraint	XML Datatype
	```<xs:minLength value="1" /><xs:maxLength value="100" /><xs:pattern value=".*\S.*"/></xs:restriction></xs:simpleType>```						
Street Name	```<xs:element name="StreetName" type="Q1Len50TextType" minOccurs="1" maxOccurs="1"> <xs:documentation>A character string (i.e. a finite set of characters) generally in the form of words of a language.</xs:element><xs:complexType name="Q1Len50TextType"> <xs:documentation>A character string (i.e. a finite set of characters) generally in the form of words of a language.<xs:simpleContent> <xs:extension base="Q1Len50TextContentType" /></xs:simpleContent></xs:complexType><xs:simpleType name="Q1Len50TextContentType"> <xs:restriction base="xs:string"> <xs:minLength value="1" /> <xs:maxLength value="50" /> <xs:pattern value=".*\S.*"/>```	To carry the street name	Y	1	50	Y	xs:string

Data Input Field (from LR Test Harness)	Extract of relevant code from Schema	Description	Mandatory	Min Value	Max Value	Has a pattern constraint	XML Datatype
	`</xs:restriction>` `</xs:simpleType>`						

Town Name	`<xs:element name="TownName"`
	`        type="Q1Len35TextType"`
	`        minOccurs="1" maxOccurs="1">`
	
	`        <xs:documentation>A character string`
	`(i.e. a finite set`
	`                            of`
	`characters) generally in the form`
	`                            of words`
	`of a language.`
	`</xs:element>`
	
	`<xs:complexType name="Q1Len35TextType">`
	`        <xs:documentation>A character string`
	`(i.e. a finite set`
	`                            of`
	`characters) generally in the form`
	`                            of words`
	`of a language.`
	`<xs:simpleContent>`
	`    <xs:extension base="Q1Len35TextContentType"`
	`/>`
	`    </xs:simpleContent>`
	`</xs:complexType>`
	
	`<xs:simpleType name="Q1Len35TextContentType">`
	`    <xs:restriction base="xs:string">`
	`    <xs:minLength value="1" />`
	`    <xs:maxLength value="35" />`
		To carry the town name	Y	1	35	Y	xs:string

Data Input Field (from LR Test Harness)	Extract of relevant code from Schema	Description	Mandatory	Min Value	Max Value	Has a pattern constraint	XML Datatype
	```<xs:pattern value=".*\S.*"/> </xs:restriction> </xs:simpleType>```						
Locality	```<xs:element name="Locality" type="Q1Len35TextType" minOccurs="0" maxOccurs="1"> <xs:documentation>A character string (i.e. a finite set of characters) generally in the form of words of a language. </xs:element> <xs:complexType name="Q1Len35TextType"> <xs:documentation>A character string (i.e. a finite set of characters) generally in the form of words of a language. <xs:simpleContent> <xs:extension base="Q1Len35TextContentType" /> </xs:simpleContent> </xs:complexType> <xs:simpleType name="Q1Len35TextContentType"> <xs:restriction base="xs:string"> <xs:minLength value="1" /> <xs:maxLength value="35" /> <xs:pattern value=".*\S.*"/>```	To carry the Locality		1	35	Y	xs:string

Data Input Field (from LR Test Harness)	Extract of relevant code from Schema	Description	Mandatory	Min Value	Max Value	Has a pattern constraint	XML Datatype
	```</xs:restriction>``` ```</xs:simpleType>```						

County	```<xs:element name="CountyName"```
	``` type="Q1Len35TextType"```
	``` minOccurs="0" maxOccurs="1">```
	``` <xs:documentation>A character string``` (i.e. a finite set
	``` of``` characters) generally in the form
	``` of words``` of a language.
	```</xs:element>```
	
	```<xs:complexType name="Q1Len35TextType">```
	``` <xs:documentation>A character string``` (i.e. a finite set
	``` of``` characters) generally in the form
	``` of words``` of a language.
	```<xs:simpleContent>```
	``` <xs:extension base="Q1Len35TextContentType"``` ```/>```
	``` </xs:simpleContent>```
	```</xs:complexType>```
	
	```<xs:simpleType name="Q1Len35TextContentType">```
	``` <xs:restriction base="xs:string">```
	``` <xs:minLength value="1" />```
	``` <xs:maxLength value="35" />```
	``` <xs:pattern value=".*\S.*"/>```
		To carry the county name		1	35	Y	xs:string

Data Input Field (from LR Test Harness)	Extract of relevant code from Schema	Description	Mandatory	Min Value	Max Value	Has a pattern constraint	XML Datatype
	`</xs:restriction>` `</xs:simpleType>`						

Local Authority	`<xs:element name="`**`LocalAuthority`**`"`
	     `type="`**`Q1Len50TextType`**`"`
	     `minOccurs="1" maxOccurs="1">`
	       `<xs:documentation>A character string`
	`(i.e. a finite set`
	               `of characters)`
	`generally in the form`
	               `of words`
	`of a language.`
	`</s:element>`
	
	`<xs:complexType name="`**`Q1Len50TextType`**`">`
	     `<xs:documentation>A character string`
	`(i.e. a finite set`
	               `of`
	`characters) generally in the form`
	               `of`
	`words of a language.`
	`<xs:simpleContent>`
	    `<xs:extension`
	`base="`**`Q1Len50TextContentType`**`" />`
	`</xs:simpleContent>`
	`</xs:complexType>`
	
	`<xs:simpleType name="`**`Q1Len50TextContentType`**`">`
	    `<xs:restriction base="xs:string">`
	    `<xs:minLength value="1" />`
	    `<xs:maxLength value="50" />`
	    `<xs:pattern value=".*\S.*"/>`
		To carry the Local Authority Name	Y	1	50	Y	xs:string

Data Input Field (from LR Test Harness)	Extract of relevant code from Schema	Description	Mandatory	Min Value	Max Value	Has a pattern constraint	XML Datatype
	`</xs:restriction>` `</xs:simpleType>`						

OS Map Reference	`<xs:element name="OSMapReference"`
	`        type="Q1Len8TextType"`
	`        minOccurs="0" maxOccurs="1">`
	`             <xs:documentation>A character string`
	`(i.e. a finite set`
	`                                of`
	`characters) generally in the form`
	`                                of words`
	`of a language.`
	`    </xs:element>`
	`</xs:sequence>`
	`xs:complexType name="Q1Len8TextType">`
	`        <xs:documentation>A character string`
	`(i.e. a finite set`
	`                                of`
	`characters) generally in the form`
	`                                of words`
	`of a language.`
	`<xs:simpleContent>`
	`    <xs:extension base="Q1Len8TextContentType"`
	`/>`
	`    </xs:simpleContent>`
	`</xs:complexType>`
	`<xs:simpleType name="Q1Len8TextContentType">`
	`    <xs:restriction base="xs:string">`
	`    <xs:minLength value="1" />`
	`    <xs:maxLength value="8" />`
		Carries the OS map reference		1	8	Y	xs:string

Data Input Field (from LR Test Harness)	Extract of relevant code from Schema	Description	Mandatory	Min Value	Max Value	Has a pattern constraint	XML Datatype

	`<xs:pattern value=".*\S.*"/>`
	`</xs:restriction>`
	`</xs:simpleType>`						

SIM - Address with Postcode	`<xs:complexType`
	`name="Q1AddressWithPostcodeType">`
	`  <xs:sequence>`
		Contents of type as above with extra postcode element.					

Data Input Field (from LR Test Harness)	Extract of relevant code from Schema	Description	Mandatory	Min Value	Max Value	Has a pattern constraint	XML Datatype

Postcode	xs:element name="**PostcodeZone**"
	    type="**Q1PostcodeZoneType**"
	    minOccurs="1" maxOccurs="1">
	        <xs:documentation>The identifier for one or more
	
	properties according to the UK
	                     postal
	service; a group of letters
	                   and
	numbers added to the postal
	
	address to assist in the sorting of
	               mail,
	as defined by the Royal Mail.
	</xs:element>
	
	<xs:complexType name="**Q1PostcodeZoneType**">
	        <xs:documentation>The identifier for one or more
	                   properties
	according to the UK postal
	               service; a
	group of letters and
	             numbers added
	to the postal address
	            to assist in
	the sorting of mail, as
	          defined by the
	Royal Mail.
	  <xs:sequence>
	    <xs:element name="**Postcode**"
	      type="**Q3TextType**"
	      minOccurs="1" maxOccurs="1">>
	      <xs:documentation>A full or partial
	UK Postcode
	    </xs:element>
	  </xs:sequence>
	</xs:complexType>
	
	<xs:complexType name="**Q3TextType**">
	    <xs:documentation>A character string (i.e. a finite set of
	
	characters) generally in the form of
	               words of a
	language.
	<xs:simpleContent>
	    <xs:extension base="**Q3TextContentType**" />
	    </xs:simpleContent>
	</xs:complexType>
	
	<xs:simpleType name="**Q3TextContentType**">
	    <xs:restriction base="xs:string">
	    <xs:pattern value=".*\S.*"/>
		Carries the postcode	Y			Y	xs:string

Data Input Field (from LR Test Harness)	Extract of relevant code from Schema	Description	Mandatory	Min Value	Max Value	Has a pattern constraint	XML Datatype
	`</xs:restriction>` `</xs:simpleType>`						

Data Input Field (from LR Test Harness)	Extract of relevant code from Schema	Description	Mandatory	Min Value	Max Value	Has a pattern constraint	XML Datatype
Alternative Despatch address	```<xs:complexType name="Q1AlternativeDespatchDetailsType"> <xs:sequence> <xs:element name="AlternativeDespatchAddress" type="Q1AlternativeDespatchAddressType" minOccurs="0" maxOccurs="1"> <xs:documentation> The type of address to be used on results. </xs:element> <xs:complexType name="Q1AlternativeDespatchAddressType"> <xs:choice> <xs:element name="PostalAddress" type="Q1AlternativePostalAddressType" minOccurs="0" maxOccurs="1"> <xs:documentation> A specific Address that can be used for the delivery of physical mail. </xs:element> <xs:element name="DXDetails" type="Q1DXDetailsType" minOccurs="0" maxOccurs="1" /> </xs:choice> </xs:complexType>```	Main element enabling/enforcing a choice between postal or DX delivery address.					
Despatch Name	```<xs:element name ="AlternativeDespatchName" type="DespatchNameTextContentType" minOccurs="0" maxOccurs="1"> <xs:documentation> Name of firm/company results will be addressed to. </xs:element> <xs:simpleType name="DespatchNameTextContentType"> <xs:restriction base="xs:string"> <xs:minLength value="1" /> <xs:maxLength value="70" /> <xs:pattern value="[A-Za-z0-9\s~!"@#$%'\(\)*\+,\- \./:;=>\?\[\\\]_\{\}\^£]*" /> </xs:restriction> </xs:simpleType>```	Words say name of firm/company, however it is possible it could be a private individual		1	70	Y	xs:string

Data Input Field (from LR Test Harness)	Extract of relevant code from Schema	Description	Mandatory	Min Value	Max Value	Has a pattern constraint	XML Datatype
Despatch Reference	```<xs:element name ="AlternativeDespatchReference"
      type="Q4TextContentType"
   minOccurs="0" maxOccurs="1">
   <xs:annotation>
      <xs:documentation> Text reference to be displayed
                                on
results.
      </xs:documentation>
   </xs:annotation>
</xs:element>

<xs:simpleType name="Q4TextContentType">
   <xs:restriction base="xs:string">
   <xs:minLength value="1" />
   <xs:maxLength value="25" />
   <xs:pattern value="[A-Za-z0-9\s~!"@#$%'\(\)*\+,\-

\./:;=>\?\[\\\]_\{\}\^£]*" />
   </xs:restriction>
</xs:simpleType>``` | Carries a reference for the alternative despatch. | | 1 | 25 | Y | xs:string |
| Line 1 | ```<xs:element name="AddressLine"
      type="Q3TextType"
   minOccurs="0" maxOccurs="unbounded">
   <xs:annotation>
      <xs:documentation>A line of the address for the

alternative despatch location.
      </xs:documentation>
   </xs:annotation>
</xs:element>

<xs:complexType name="Q3TextType">
   <xs:annotation>
      <xs:documentation>A character string (i.e. a finite set
                              of
characters) generally in the form of
                              words of a
language.
      </xs:documentation>
   </xs:annotation>
<xs:simpleContent>
   <xs:extension base="Q3TextContentType" />
</xs:simpleContent>
</xs:complexType>

<xs:simpleType name="Q3TextContentType">
   <xs:restriction base="xs:string">
   <xs:pattern value=".*\S.*"/>
   </xs:restriction>
</xs:simpleType>``` | Start of the alternative despatch address | | | | y | xs:string |
| Line 2 | As line 1 | | | | | | |

Data Input Field (from LR Test Harness)	Extract of relevant code from Schema	Description	Mandatory	Min Value	Max Value	Has a pattern constraint	XML Datatype
Line 3	As line 1						
Line 4	As line 1						
Line 5	As line 1						

Postcode	```<xs:element name="Postcode"
	        type="Q3TextType"
	    minOccurs="0" maxOccurs="1">
	    <xs:annotation>
	        <xs:documentation>A valid postcode
	for the
	
	alternative address.
	        </xs:documentation>
	    </xs:annotation>
	</xs:element>
	
	<xs:complexType name="Q3TextType">
	    <xs:annotation>
	        <xs:documentation>A character string
	(i.e. a finite set
	                                of
	characters) generally in the form of
	                            words of a
	language.
	        </xs:documentation>
	    </xs:annotation>
	<xs:simpleContent>
	    <xs:extension base="Q3TextContentType" />
	</xs:simpleContent>
	</xs:complexType>
	
	<xs:simpleType name="Q3TextContentType">
	    <xs:restriction base="xs:string">
	    <xs:pattern value=".*\S.*"/>
	    </xs:restriction>
	</xs:simpleType>```
		Field to carry the postcode.				Y	xs:string

OR							

Data Input Field (from LR Test Harness)	Extract of relevant code from Schema	Description	Mandatory	Min Value	Max Value	Has a pattern constraint	XML Datatype

DX number	```<xs:element name="DXNumber"
	        type="Q3TextType"
	        minOccurs="1" maxOccurs="1">
	        <xs:annotation>
	                <xs:documentation>A unique
	identifier for a delivery
	                                point for
	organisations using the
	                                Document
	Exchange service.
	                </xs:documentation>
	        </xs:annotation>
	</xs:element>
	
	<xs:complexType name="Q3TextType">
	        <xs:annotation>
	                <xs:documentation>A character string
	(i.e. a finite set
	                                of
	characters) generally in the form of
	                                words of a
	language.
	                </xs:documentation>
	        </xs:annotation>
	<xs:simpleContent>
	        <xs:extension base="Q3TextContentType" />
	</xs:simpleContent>
	</xs:complexType>
	
	<xs:simpleType name="Q3TextContentType">
	        <xs:restriction base="xs:string">
	        <xs:pattern value=".*\S.*"/>
	        </xs:restriction>
	</xs:simpleType>```
		Field to carry the DX number				Y	xs:string

Data Input Field (from LR Test Harness)	Extract of relevant code from Schema	Description	Mandatory	Min Value	Max Value	Has a pattern constraint	XML Datatype
| DX exchange | ```
<xs:element name="ExchangeName"
      type="Q3TextType"
      minOccurs="1"  maxOccurs="1">
    <xs:annotation>
         <xs:documentation>A character string
(i.e. a finite set
                                      of
characters) generally in the form of
                                   words of a
language.
         </xs:documentation>
    </xs:annotation>
</xs:element>

<xs:complexType name="Q3TextType">
    <xs:annotation>
         <xs:documentation>A character string
(i.e. a finite set
                                      of
characters) generally in the form
                                   of  words
of a language.
         </xs:documentation>
    </xs:annotation>
<xs:simpleContent>
    <xs:extension base="Q3TextContentType" />
</xs:simpleContent>
</xs:complexType>

<xs:simpleType name="Q3TextContentType">
    <xs:restriction base="xs:string">
    <xs:pattern value=".*\S.*"/>
    </xs:restriction>
</xs:simpleType>
``` | Field to carry the DX exchange | | | | Y | xs:string |