ORDNANCE SURVEY GB

ADDRESSBASE PREMIUM – TECHNICAL SPECIFICATION

Version history

Version	Date	Description
2.3	03/2016	Clarifications following specification change of product.
2.4	07/2017	Amendments as follows: • Geographic file naming. This document now accurately reflects the naming of the files provided. • Clarification of ordering of record types in csv supplies in Section 3. • Improved description of VOLUME_NUMBER (Header Record) to make distinction between Geographic and Non-Geographic supplies. • Improved description of TIME_STAMP (Header Record) to confirm 24-hour clock. • Correction in description of LANGUAGE (LPI record). - Improvements to description of START_DATE and ENTRY_DATE (DPA Record). • Confirmation that the Successor record is currently not utilised in product. • Correction to GML Trailer headings. Updates to description of Country attribute and code list. • New CSV UML model to correct THOROUGHFARE in DPA table.
2.5	10/2018	Update to RPC code descriptions. Changed order or items in code lists for layout purposes.
2.6	03/2021	Updated formatting.
2.7	08/2021	Introduction of GeoPackage format to AddressBase Premium.
2.8	09/2023	Updated BLPU state code definition

Purpose of this document

This is the Technical Specification for the AddressBase Premium product. This Specification provides greater insight into these products and their potential applications. For information on the contents and structure of AddressBase Premium, refer to the Overview and Getting Started Guide.

The terms and conditions on which AddressBase Premium is made available to you and your organisation are contained in that Ordnance Survey customer contract. Please ensure your organisation has signed a valid current customer contract to be able to use AddressBase Premium.

We may change the information in this Specification at any time, giving you the notice period set out in your contract.

We do not accept responsibility for the content of any third-party websites referenced or accessed in or through this Specification.

This document has been screened according to Ordnance Survey's Equality Scheme. If you have difficulty reading this information in its current format and would like to find out how to access it in a different format (braille, large print, computer disk or in another language), please contact us on:
+44 (0)3456 05 05 05.

Copyright in this Guide

The data in AddressBase Premium is provided by GeoPlace, a limited liability partnership between the Local Government Association and Ordnance Survey.

AddressBase Premium contains data created and maintained by English, Welsh and Scottish Local Government as well as Royal Mail and Valuation Office Agency.

Trade marks

Contact details

OS website 'Contact us' page (https://www.ordnancesurvey.co.uk/contact-us).

Contents

1. Introduction

AddressBase Premium provides the most detailed view of an address and its life cycle for England, Wales and Scotland. It has more records than AddressBase Plus as it provides all information relating to an address or property from its creation to retirement.

The product contains Local Authority, Ordnance Survey and Royal Mail addresses. This includes alternative addresses for current records where available, indicating variations on the official addresses; and provisional addresses (proposed planning developments), and historic information (no longer existing, for example demolished properties) where available. OWPA (Objects Without a Postal Address) and cross references to VOA (Valuation Office Agency) data and products such as OS MasterMap Topography Layer are also included.

1.1 Data formats

The AddressBase Premium product will be distributed as comma-separated value (CSV), Geography Markup Language (GML) version 3.2.1 or GeoPackage formats. The CSV and GML formats can either be supplied as a full supply or a change-only update (COU); the GeoPackage format is available as a full supply only.

1.1.1 CSV

The CSV supply of AddressBase Premium means:

- There will be one record per line in each file.
- Fields will be separated by commas.
- String fields will be delimited by double quotes.
- No comma will be placed at the end of each row in the file.
- Records will be terminated by Carriage Return / Line Feed.
- Double quotes inside strings will be escaped by doubling.

Where a field has no value in a record, two commas will be placed together in the record (one for the end of the previous field and one for the end of the null field). Where the null field is a text field double quotes will be included between the two commas, for example - , “”,

AddressBase Premium CSV data will be transferred using Unicode encoded in UTF-8. Unicode includes all the characters in ISO-8859-14 (Welsh characters). Some accented characters are encoded differently.

The transfer will normally be in a single file, but the data can be split into multiple files using volume numbers. AddressBase Premium records are provided within continuous files cut at approximately 1 million lines as referred to above.

Street and Street Descriptor records are provided together and then a new file is started independent of count for the additional record types.

This means different record types, for example, BLPU and LPIs (see Section 2) can be found in the same CSV file.

The record types are provided in the following order:

- Street (Type 11)
- Street Descriptor (Type 15) – a new file is started after the last Street Descriptor record for your supply is reached
- BLPU (Type 21)
- LPI (Type 24)
- Delivery Point Address (Type 28)
- Organisation (Type 31)
- Classification (Type 32)
- Application Cross Reference (Type 23)

1.1.2 GML

The GML Encoding standard is an Extensible Markup Language (XML) grammar for expressing geographical features. XML schemas are used to define and validate the format and content of GML. The XML specifications that GML is based on are available from the World Wide Web Consortium (W3C) website: http://www.w3.org. More information can be found in the Open Geospatial Consortium (OGC) document, Geography Markup Language v3.2.1 (https://portal.ogc.org/files/?artifact_id=20509).

The GML 3.2.1 specification provides a set of schemas that define the GML feature constructs and geometric types. These are designed to be used as a basis for building application-specific schemas, which define the data content.

A GML document is described using an XML schema. The AddressBase Premium schema document (addressbasepremium.xsd) defines the features in AddressBase Premium GML and is available on the Ordnance Survey website at: https://www.ordnancesurvey.co.uk/xml/products/AddressBasePremium.xml. It imports the GML 3.2.1 schemas which rely on XML, as defined by W3C at: http://www.w3.org/XML/1998/namespace.html.

The application schema uses the following XML namespaces, for which definitions are available as given in Table 1:

Table 1. XML namespaces used by the application schema

Prefix	Namespace Identifier	Definition Available at
gml	http://www.opengis.net/gml	http://schemas.opengis.net/gml/3.2.1/gml.xsd
xsi	http://www.w3.org/2001/XMLSchema http://www.w3.org/2001/XMLSchema-instance	Built into XML – http://www.w3.org/TR/xmlschema-1/
xlink	Xlink – http://www.w3.org/1999/xlink	http://www.w3.org/1999/xlink.xsd

Information about Unicode and UTF-8, the character encoding we have chosen, is available on the Unicode Consortium website (http://www.unicode.org/).

Features

Each feature within the AddressBaseSupplySet:FeatureCollection is encapsulated in the following member element according to its feature type:

Member Element	Feature Type
<abpr:basicLandPropertyUnitMember>	BasicLandPropertyUnit

The UPRN of the feature is provided in the XML attribute of the gml:id

```
<abpr: basicLandPropertyUnitMember>
<abpr: BasicLandPropertyUnit  gml:id="uk.geoplace.uprn.100001153531 4">
……..
</abpr:BasicLandPropertyUnit>
</abpr: basicLandPropertyUnitMember>
```

Member Element	Feature Type
<abpr:streetMember>	Street

The USRN of the feature is provided in the XML attribute of the gml:id

```
<abpr: streetMember>
<abpr:Street  gml:id="uk.geoplace.usrn.14200295">
……..
</abpr:Street>
</abpr: streetMember>
```

See Section 5.2 for specific GML examples.

Envelope

In the GML supply, you can determine the extent of your supply by the <gml: Envelope>.

For example:

```
<gml:boundedBy>
<gml:Envelope srsName="urn:ogc:def:crs:EPSG::27700">
<gml:lowerCorner>82643.6 5333.6</gml:lowerCorner>
<gml:upperCorner>655989 657599.5</gml:upperCorner>
</gml:Envelope>
</gml:boundedBy>
```

1.1.3 GeoPackage

GeoPackage (GPKG) is an open, standards-based data format as defined by the Open Geospatial Consortium (OGC). It is designed to be a lightweight format that can contain large amounts of varied and complex data in a single, easy to distribute and ready to use file. Please be advised that older versions of GIS software may need updating before being able to display and interact with GeoPackage files.

GeoPackage offers the following benefits:

- The single file is easy to transfer and offers the end-user a rich experience.
- Attribute names are not limited in length, making it user friendly.
- The file size limit is very large at 140 TB[1], so lots of data can be easily accommodated.
- It supports raster, vector and database formats, making it a highly versatile solution.
- It is an OGC Standard.
- In most cases, it is a plug-in-and-play format.

1.2 Supply and update

The primary supply mechanism of AddressBase Premium data is referred to as non-geographic chunks. This is a way of dividing up the data into chunks that are supplied in separate volumes, which have a fixed maximum amount of records. The supply is not supplied with any reference to the geographic position of records.

Public Sector Geospatial Agreement (PSGA) customers are able to order geographic chunks (5km tiles) as well as non-geographic chunks, although geographic chunks are not considered the main form of supply.

All customers are also able to take a complete supply (referred to as a Managed Great Britain Set: MGBS) or an area of interest (AOI) as a full supply or change-only update (COU) supply.

Non-geographic chunks (unzipped)
If you receive your data as non-geographic chunks, the filename will be constructed as follows:

- productName_supply_ccyy-mm-dd_vvv.format

Where:

ProductName	is AddressBasePremium
supply	is defined as FULL or COU
ccyy-mm-dd	is the date the file was generated
vvv	is the volume number of the file
format	is the format of the files received, for example, CSV, GML or GeoPackage

[1] A file size limit might be imposed by the file system to which the file is written.

For example:

- AddressBasePremium_FULL_2013-05-28_001.gml (GML full supply)
- AddressBasePremium_FULL_2013-05-28_001.gpkg (GeoPackage full supply)
- AddressBasePremium_COU_2013-05-28_001.csv (CSV COU supply)

Non-geographic chunks (zipped)
If the data has been provided in a zip file, the filename will be constructed as follows:

- productName_supply_ccyy-mm-dd_vvv_format.zip

For example:

- AddressBasePremium_FULL_2013-05-28_001_gml.zip (GML full supply zipped)

Geographic chunks (unzipped)
If you receive your data as geographic chunks (PSGA customers only), the filename will be constructed as follows:

- ngxxyy.format

Where:

ngxxyy	is the four-digit grid reference belonging to the 1 km south-west corner of the 5 km chunk.
format	is the format of the files received, for example, CSV, GML

For example:

- NC4040.gml (GML geographic supply)
- NC4040.csv (CSV geographic supply)

When you receive your geo-chunked download data for GeoPackage, you will see a single folder on opening the data.

For example:

- AddressBasePremium_FULL_2013-05-28_001_gpkg (GeoPackage full supply)

Geographic chunks (zipped)
If the data has been provided in a zip file, the following file naming convention will be used for CSV and GML:

- ngxxyy.zip

For example:

- NC4040.zip (geographic supply zipped)

For GeoPackage supply, you will see a single zipped folder on downloading the data.

For example:

- AddressBasePremium_FULL_2013-05-28_001_gpkg.zip (GeoPackage full supply)

1.3 Coordinate reference system

AddressBase Premium has two coordinate reference systems (CRS) present within the data:

- British National Grid (BNG)
- European Terrestrial Reference System 89 (ETRS89)

BNG uses the OSGB36 geodetic datum and a single Transverse Mercator projection for the whole of Great Britain. Positions on this projection are described using Easting and Northing coordinates in units of metres. The BNG is a horizontal spatial reference system only; it does not specify a vertical (height) reference system.

ETRS89 is the EU recommended frame of reference for European data and is represented as Latitude and Longitude values. ETRS89 is a horizontal spatial reference system only; it does not specify a vertical (height) reference system.

View our 'Guide to Coordinate Systems in Great Britain' on our website (https://www.ordnancesurvey.co.uk/documents/resources/guide-coordinate-systems-great-britain.pdf).

1.4 Unique Property Reference Number

A Unique Property Reference Number (UPRN) is a unique numeric identifier for every addressable location in Great Britain. The UPRN is the persistent identifier providing consistency across the AddressBase product range. Each address record has a UPRN, assigned by Local Authorities in England, Wales and Scotland or Ordnance Survey depending on the type of address.

Throughout its lifecycle, information on the address of a property can change. This may be due to a change of name, change of use, or the eventual demolition of the property. Independent of any changes being made the UPRN associated to an address is never changed, meaning the unique identifier remains persistent and reliable.

Please be aware this is not the Primary Key for all tables within the AddressBase Premium supply, due to the relational model. Please refer to later sections of this document for further information.

2. AddressBase Premium structure

AddressBase Premium is structured as a series of relational tables. The data structure in this document is described by means of unified modeling language (UML) class diagrams and accompanying tables containing text.

2.1 Structure

The AddressBase Premium product is constructed as per the following UML diagrams.

2.1.1 Model overview for CSV and GeoPackage

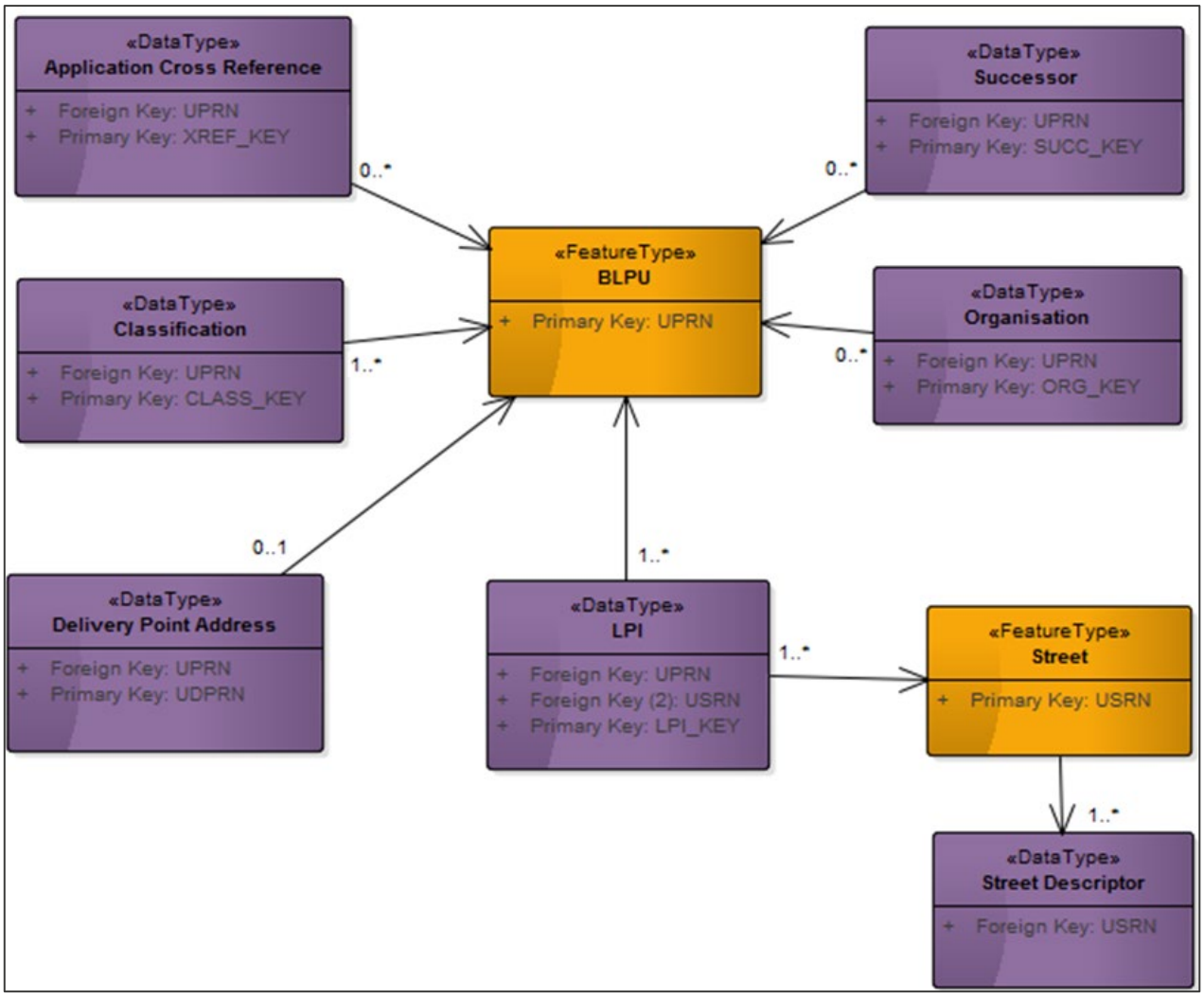

Figure 1. High level data model representing the CSV and GeoPackage AddressBase Premium data model. This diagram shows the relationships between each of the record types and their foreign keys.

A UML model of AddressBase Premium in CSV and GeoPackage formats can be seen in Figure 2. In the UML diagram, feature types from the Ordnance Survey product specification are orange and data types are purple. All code lists and enumerations can be found under the attribute tables. It should be noted that record_identifier and pro_order are not included in GeoPackage format.

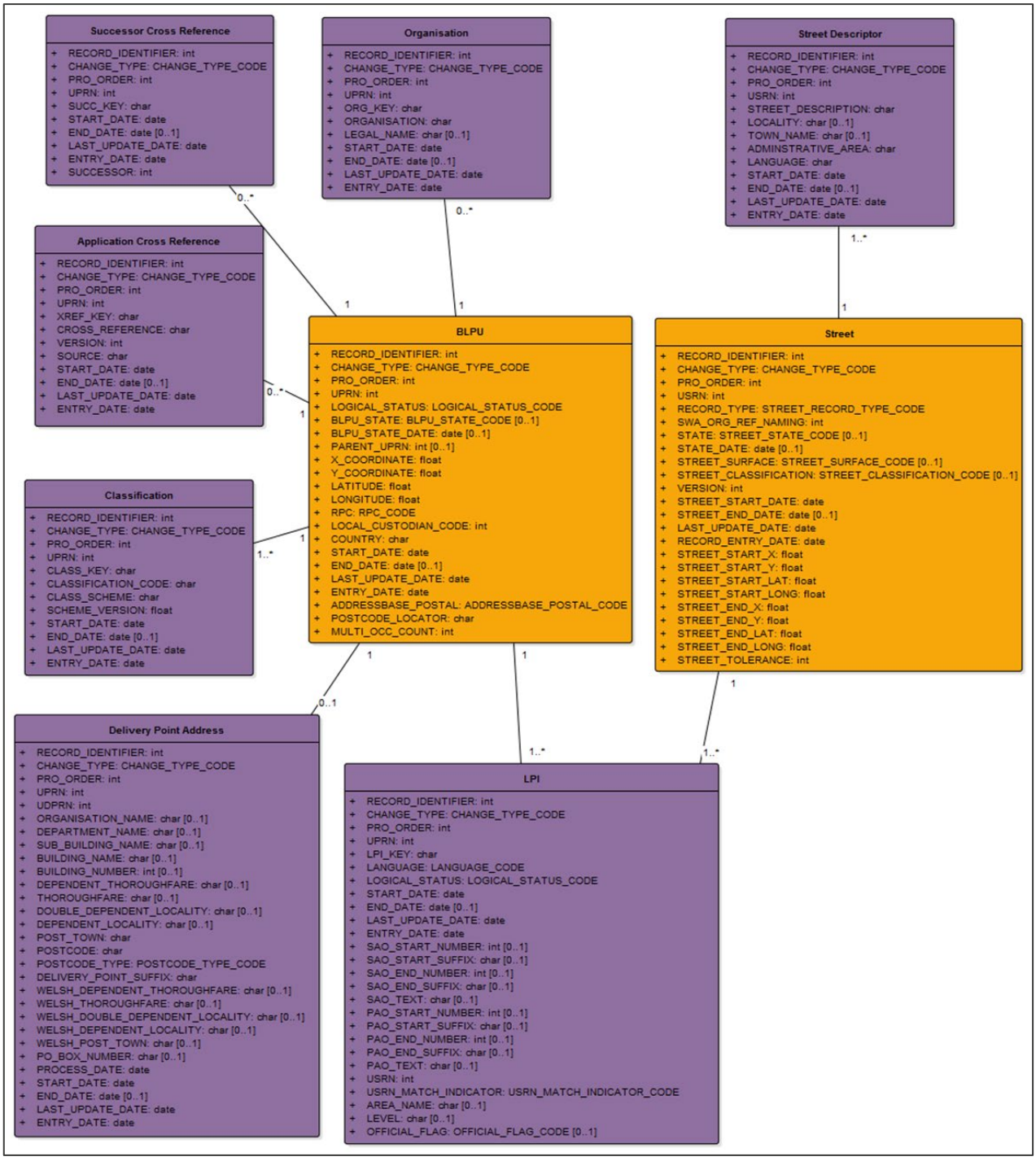

Figure 2. UML model showing AddressBase Premium feature types and data types

2.1.2 Model overview for GML

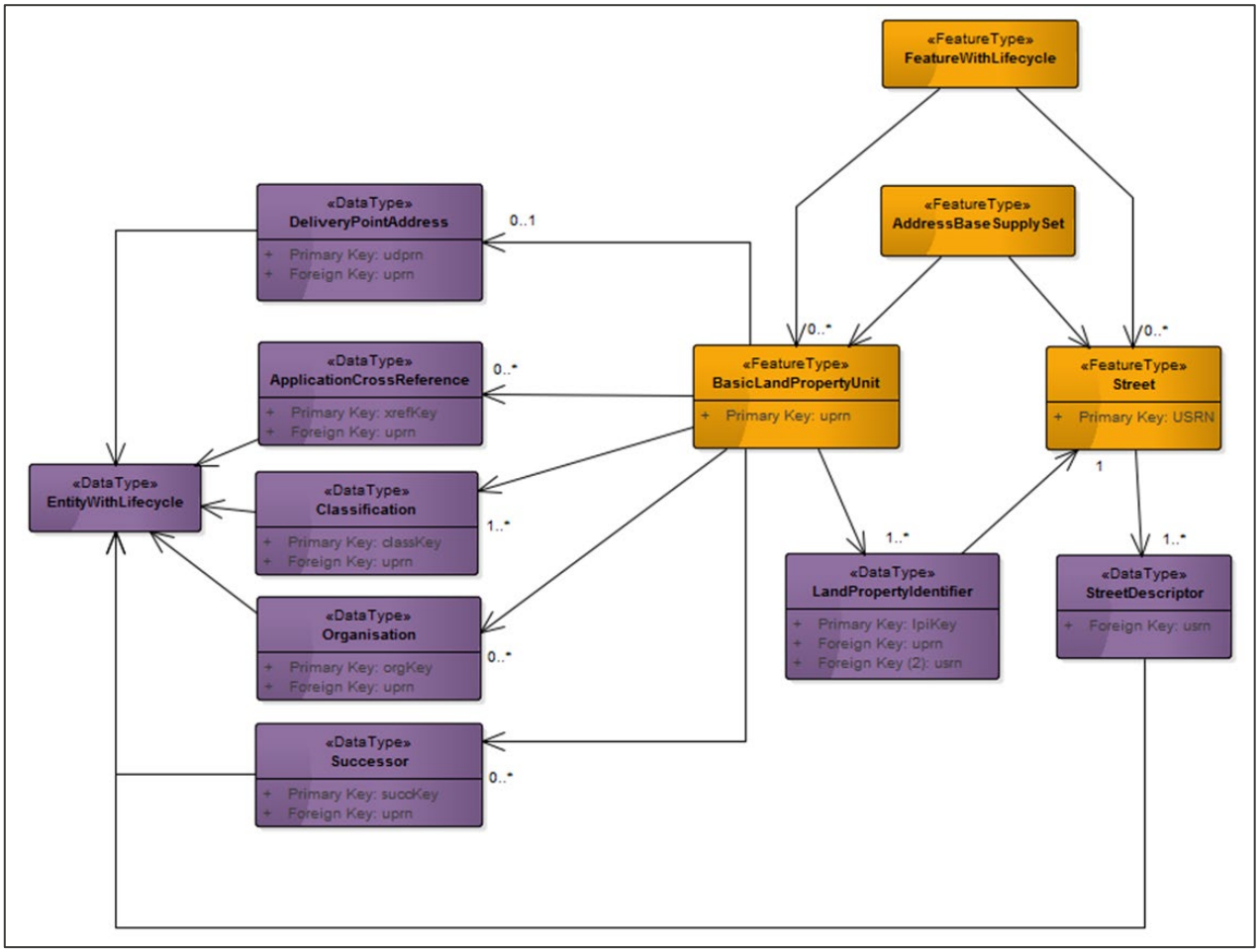

Figure 3. High level data model representing the GML AddressBase Premium data model.
This diagram shows the relationships between each of the record types and their foreign keys.

A UML model of AddressBase Premium in GML format can be seen in Figure 4 on the following page. In the UML diagram, feature types from the Ordnance Survey product specification are orange and data types are purple.

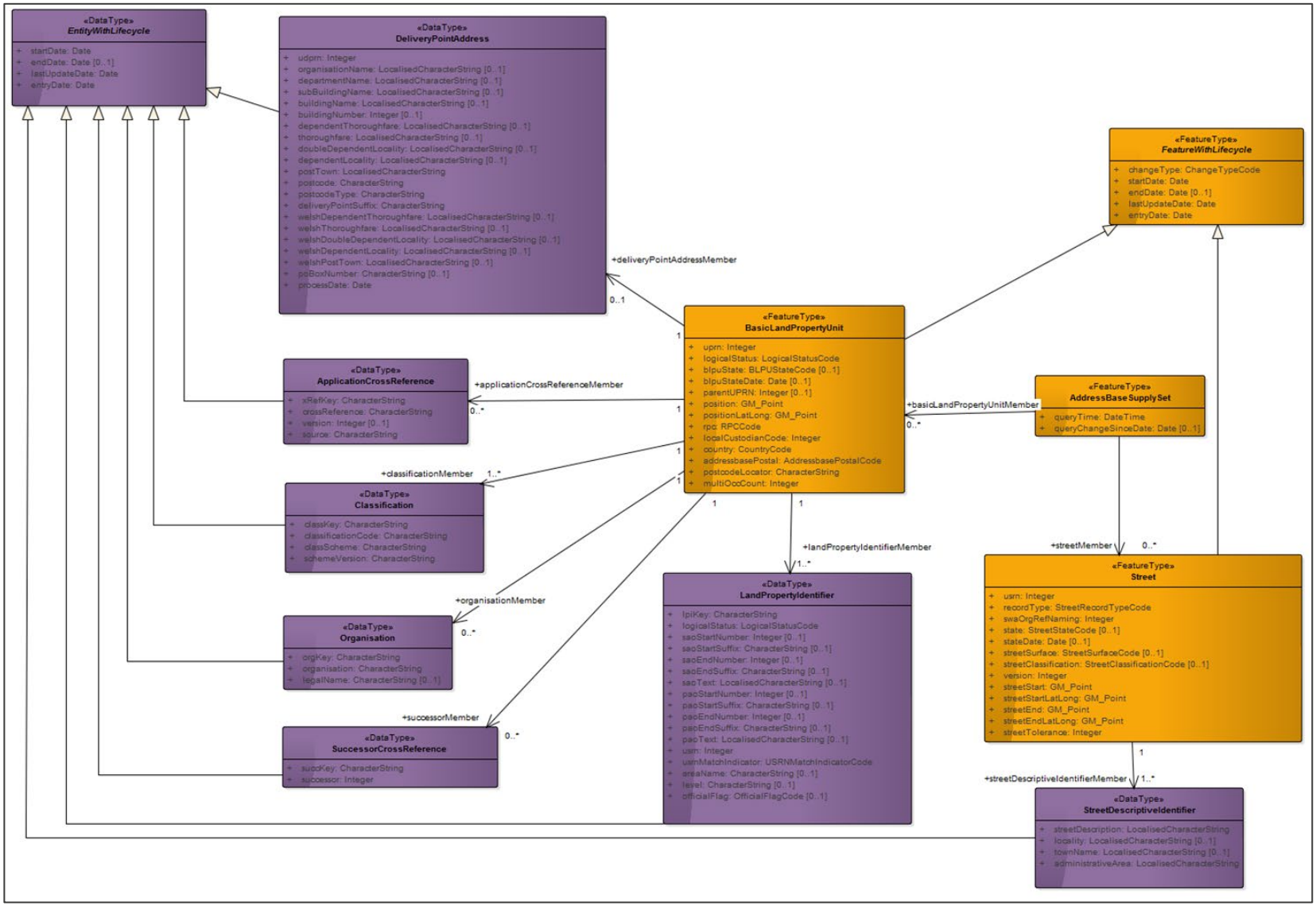

Figure 4. UML model showing AddressBase Premium feature types, enumerations and code lists for the GML supply

Table Descriptions

Street – record identifier 11	
Definition:	A way or thoroughfare providing a right of way on foot, by cycle or by motor vehicle, or access to more than one property.
Description:	This record assigns a Unique Street Reference Number (USRN) to each street and holds the start and end coordinates of the street feature with information about surface type and classification.

Street Descriptor – record identifier 15	
Definition:	A descriptive identifier providing additional information about the street feature.
Description:	This record holds information about locality, town name and street name.

Basic Land and Property Unit (BLPU) – record identifier 21	
Definition:	A BLPU is defined as a real-world object that is an 'area of land, property or structure of fixed location having uniform occupation, ownership or function'.
Description:	A real-world object that is of interest and within scope of the CLASS_SCHEME.

Application Cross Reference – record identifier 23	
Definition:	Application cross reference links to third party identifiers.
Description:	AddressBase Premium application cross references contain a lookup between the AddressBase Premium UPRN and the unique identifiers of other relevant datasets.

Land and Property Identifier (LPI) – record identifier 24	
Definition:	An LPI is a structured entry that identifies a BLPU.
Description:	A simple identifier or description for the object. The richness of the data structure within AddressBase Premium provides the facility to describe a BLPU by more than one LPI.

Delivery Point Address – record identifier 28	
Definition:	A Delivery Point Address is defined as a property that receives deliveries from Royal Mail.
Description:	The structure of this address is taken from Royal Mail Postcode Address File (PAF) and other supplementary data files.

Successor Record – record identifier 30	
Definition:	This record holds references to a UPRN and to any replacement UPRN, for example, if a building is split into two sub-buildings; the sub-building UPRNs will be referenced in the successor record.
Description:	This record holds information about a UPRN and the UPRNs of the records that succeed that record.

Organisation – record identifier 31	
Definition:	A structured entry identifying the name of the current non-domestic occupier of the BLPU.
Description:	This record holds information about the organisation of the record.

Classification – record identifier 32	
Definition:	A structured entry that provides the code for the type of BLPU and the classification scheme from which the code is taken.
Description:	This record holds the classification of a property and allows one to search upon the use of a feature.

The following are contained within CSV only:

Header – record identifier 10	
Definition:	A structured entry that provides key information about the source, time and supply mechanism of the AddressBase Premium file.

Metadata – record identifier 29	
Definition:	A structured entry providing metadata information such as the gazetteer owner, scope and character sets.

Trailer – record identifier 99	
Definition:	A structured entry which terminates the file. This includes information on the record counts, and next volume number.

The following are contained within GML only:

EntityWithLifeCycle	
Definition:	This feature holds the lifecycle information about the data type record.

FeatureWithLifeCycle	
Definition:	This feature holds the lifecycle information about the whole feature.

AddressBaseSupplySet	
Definition:	This feature is formally known as the GML feature collection and is used to define a collection of features.

2.2 Features

This section describes the features (one for CSV and GeoPackage, and two for GML) which make up the AddressBase Premium product, giving the following information about each attribute:

- **Name and Definition:** The name of the attribute and what it is describing.
- **Condition:** A condition associated with this attribute (optional).
- **Attribute Type:** The nature of the attribute, for example a numeric value or a code list value.
- **Multiplicity:** Describes how many times this element is expected to be populated in the data. An attribute may be optional or mandatory within the product. These are denoted by:
  - '1' – there must be a value
  - '0..1' – population is optional but a maximum of one attribute will be returned

These values may be used in combination.

The tables which follow in this Technical Specification use orange for feature types from the Ordnance Survey product specification and purple for data types. All code lists are coloured blue and enumerations are green. Code list and enumeration tables can be found in Section 2.3.

2.2.1 Header – (Type 10 Record)

Header – (Type 10 Record)		
GML: A Header Record is not provided in GML	CSV: RECORD_IDENTIFIER	GeoPackage: A Header Record is not provided in GeoPackage
Definition: Identifies the record as a Header Record (type 10).		
Type: Integer	Size: 2	Multiplicity: [1]
GML: A Header Record is not provided in GML	CSV: CUSTODIAN_NAME	GeoPackage: A Header Record is not provided in GeoPackage
Definition: Name of the data provider organisation.		
Type: char	Size: 40	Multiplicity: [1]
GML: A Header Record is not provided in GML	CSV: LOCAL_CUSTODIAN_CODE	GeoPackage: A Header Record is not provided in GeoPackage
Definition: Unique identifier for the data provider code.		
Type: Integer	Size: 4	Multiplicity: [1]
GML: A Header Record is not provided in GML	CSV: PROCESS_DATE	GeoPackage: A Header Record is not provided in GeoPackage
Definition: The date on which the data supply was generated.		
Type: Date		Multiplicity: [1]
GML: A Header Record is not provided in GML	CSV: VOLUME_NUMBER	GeoPackage: A Header Record is not provided in GeoPackage
Definition: The sequential number of the volume in the transfer set. Please note for Geographic supplies, this number will always be zero '0'.		
Type: Integer	Size: 3	Multiplicity: [1]
GML: A Header Record is not provided in GML	CSV: ENTRY_DATE	GeoPackage: A Header Record is not provided in GeoPackage
Definition: Date of data entry for this volume.		
Type: Date		Multiplicity: [1]
GML: A Header Record is not provided in GML	CSV: TIME_STAMP	GeoPackage: A Header Record is not provided in GeoPackage

Header – (Type 10 Record)		
Definition: Time of file creation in HH:MM:SS format in a 24-hour clock.		
Type: Time		Multiplicity: [1]
GML: A Header Record is not provided in GML	CSV: VERSION	GeoPackage: A Header Record is not provided in GeoPackage
Definition: Version number of the product schema, for example, 1.0, 2.0.		
Note: The version number relates to the product schema and not this Technical Specification document.		
Type: char	Size: 7	Multiplicity: [1]
GML: A Header Record is not provided in GML	CSV: FILE_TYPE	GeoPackage: A Header Record is not provided in GeoPackage
Definition: States whether the data supply is a full supply or change only supply.		
Type: FileTypeCode	Size: 1	Multiplicity: [1]

2.2.2 Street – (Type 11 Record)

Street – (Type 11 Record)		
GML: Not provided in GML	CSV: Not Provided in CSV	GeoPackage: fid
Definition: A non-persistent integer which is autogenerated and is required within the OGC GeoPackage format.		
Type: Integer		Multiplicity: [1]
GML: Not provided in GML	CSV: RECORD_IDENTIFIER	GeoPackage: Not provided in GeoPackage
Definition: Identifies this record as a Street Record (type 11).		
Type: Integer	Size: 2	Multiplicity: [1]
GML: Provided in FeatureWithLifeCycle	CSV: CHANGE_TYPE	GeoPackage: change_type
Definition: Type of record change – please see Section 4 for more information.		
Type: ChangeTypeCode	Size: 1	Multiplicity: [1]

Street – (Type 11 Record)		
GML: Not provided in GML	CSV: PRO_ORDER	GeoPackage: Not provided in GeoPackage
Definition: The order in which the records were processed in to create the data supply.		
Type: Integer	Size: 16	Multiplicity: [1]
GML: usrn	CSV: USRN	GeoPackage: usrn
Definition: Unique Street Reference Number (USRN) - the unique key for the record and primary key for the Street table.		
Type: Integer	Size: 8	Multiplicity: [1]
GML: recordType	CSV: RECORD_TYPE	GeoPackage: record_type
Definition: Description of the street record type, for example whether it is a named or numbered street.		
Type: StreetRecordTypeCode	Size: 1	Multiplicity: [1]
GML: swaOrgRefNaming	CSV: SWA_ORG_REF_NAMING	GeoPackage: swa_org_ref_naming
Definition: The code which identifies the Street Naming and Numbering Authority or the Local Highway Authority.		
Type: Integer	Size: 4	Multiplicity: [1]
GML: state	CSV: STATE	GeoPackage: state
Definition: A code identifying the current state of the Street, 'Open' for example.		
Type: StreetStateCode	Size: 1	Multiplicity: [0..1]
GML: stateDate	CSV: STATE_DATE	GeoPackage: state_date
Definition: Date at which the street achieved its current state as referenced in the 'State' column.		
Condition: If State Date is present, State must also be present.		
Type: Date		Multiplicity: [0..1]
GML: streetSurface	CSV: STREET_SURFACE	GeoPackage: street_surface
Definition: A code to indicate the surface finish of the street.		
Type: StreetSurfaceCode	Size: 1	Multiplicity: [0..1]

Street – (Type 11 Record)		
GML: streetClassification	CSV: STREET_CLASSIFICATION	GeoPackage: street_classification
Definition: A code for the primary street classification, for example denoting it to be 'open to all vehicles'.		
Type: StreetClassificationCode	Size: 2	Multiplicity: [0..1]
GML: version	CSV: VERSION	GeoPackage: version
Definition: Version number of the street record.		
Type: Integer	Size: 3	Multiplicity: [1]
GML: Provided in FeatureWithLifeCycle	CSV: STREET_START_DATE	GeoPackage: street_start_date
Definition: Date this record or version was inserted into the database.		
Type: Date		Multiplicity: [1]
GML: Provided in FeatureWithLifeCycle	CSV: STREET_END_DATE	GeoPackage: street_end_date
Definition: Date on which the street was closed in the product database. This can occur due to the street being permanently closed in the real world.		
Condition: If State is equal to 4, Street End Date must be populated.		
Type: Date		Multiplicity: [0..1]
GML: Provided in FeatureWithLifeCycle	CSV: LAST_UPDATE_DATE	GeoPackage: last_update_date
Definition: The date on which any attribute of the Record was last changed.		
Type: Date		Multiplicity: [1]
GML: Provided in FeatureWithLifeCycle	CSV: RECORD_ENTRY_DATE	GeoPackage: record_entry_date
Definition: The date that the record was entered into the Local Authority database.		
Type: Date		Multiplicity: [1]

Street – (Type 11 Record)		
GML: streetStart	CSV: STREET_START_X, STREET_START_Y	GeoPackage: street_start_x, street_start_y
Definition: A value in metres defining the x and y location in accordance with the British National Grid for the start point of the street.		
Type: GML – GM_POINT CSV – Float GeoPackage - Double	Size: STREET_START_X (precision, scale) – (8, 2) STREET_START_Y (precision, scale) – (9, 2)	Multiplicity: [1]
GML: streetStartLatLong	CSV: STREET_START_LAT, STREET_START_LONG	GeoPackage: street_start_lat, street_start_long
Definition: A value defining the Latitude and Longitude start point of the street in accordance with the ETRS89 coordinate reference system.		
Type: GML – GM_Point CSV – Float GeoPackage - Double	Size: LATITUDE (precision, scale) – (9, 7) LONGITUDE (precision, scale) – (8, 7)	Multiplicity: [1]
GML: streetEnd	CSV: STREET_END_X, STREET_END_Y	GeoPackage: street_end_x, street_end_y
Definition: A value in metres defining the x and y location in accordance with the British National Grid for the end point of the street.		
Type: GML – GM_Point CSV – Float GeoPackage – Double	Size: STREET_END_X (precision, scale) – (8, 2) STREET_END_Y (precision, scale) – (9, 2)	Multiplicity: [1]
GML: streetEndLatLong	CSV: STREET_END_LAT, STREET_END_LONG	GeoPackage: street_end_lat, street_end_long
Definition: A value defining the Latitude and Longitude end point of the street in accordance with the ETRS89 coordinate reference system.		
Type: GML – GM_Point CSV – Float GeoPackage – Double	Size: LATITUDE (precision, scale) – (9, 7) LONGITUDE (precision, scale) – (8, 7)	Multiplicity: [1]

Street – (Type 11 Record)		
GML: streetTolerance	CSV: STREET_TOLERANCE	GeoPackage: street_tolerance
Definition: The accuracy of data capture (in metres) to which the Street Start and End coordinates have been captured.		
Type: Integer	Size: 3	Multiplicity: [1]

2.2.3 Street Descriptor – (Type 15 Record)

Street Descriptor – (Type 15 Record)		
GML: Not provided in GML	CSV: Not Provided in CSV	GeoPackage: fid
Definition: A non-persistent integer which is autogenerated and is required within the OGC GeoPackage format.		
Type: Integer		Multiplicity: [1]
GML: Not provided in GML	CSV: RECORD_IDENTIFIER	GeoPackage: Not provided in GeoPackage
Definition: Identifies this record as a Street Descriptor record (type 15).		
Type: Integer	Size: 2	Multiplicity: [1]
GML: Not provided in GML on this datatype	CSV: CHANGE_TYPE	GeoPackage: change_type
Definition: Type of record change – please see Section 4 for more information.		
Type: ChangeTypeCode	Size: 1	Multiplicity: [1]
GML: Not provided in GML	CSV: PRO_ORDER	GeoPackage: Not provided in GeoPackage
Definition: The order in which the records were processed in to create the data supply.		
Type: Integer	Size: 16	Multiplicity: [1]
GML: Not provided in GML on this datatype	CSV: USRN	GeoPackage: usrn
Definition: Unique Street Reference Number (USRN): used as foreign key to reference the corresponding street record.		
Type: Integer	Size: 8	Multiplicity: [1]

Street Descriptor – (Type 15 Record)		
GML: streetDescription	CSV: STREET_DESCRIPTION	GeoPackage: street_description
Definition: Name, description or Street number for this record.		
Type: GML – LocalisedCharacterString CSV – char GeoPackage – String	Size: 100	Multiplicity: [1]
GML: locality	CSV: LOCALITY	GeoPackage: locality
Definition: A locality defines an area or geographical identifier within a town, village or hamlet. Locality represents the lower-level geographical area. The locality field should be used in conjunction with the town name and street description fields to uniquely identify geographic area where there may be more than one within an administrative area.		
Type: GML – LocalisedCharacterString CSV – char GeoPackage – String	Size: 35	Multiplicity: [0..1]
GML: townName	CSV: TOWN_NAME	GeoPackage: town_name
Definition: Town Name.		
Condition: Town name must be present if the Street Record Type is 1 or 2 and may be entered for type 3, 4 and 9 Streets.		
Type: GML – LocalisedCharacterString CSV – char GeoPackage – String	Size: 30	Multiplicity: [0..1]
GML: administrativeArea	CSV: ADMINSTRATIVE_AREA	GeoPackage: administrative_area
Definition: Local Highway Authority name for the area this record exists within.		
Type: GML – LocalisedCharacterString CSV – char	Size: 30	Multiplicity: [1]
GML: language qualifiers are provided in the parent element as 'xml:lang'	CSV: LANGUAGE	GeoPackage: language
Definition: A code identifying the language in use for the record.		

Street Descriptor – (Type 15 Record)		
Type: LanguageCode	Size: 3	Multiplicity: [1]
GML: Provided in EntityWithLifeCycle	CSV: START_DATE	GeoPackage: start_date
Definition: Date this record was first created in the database.		
Type: Date		Multiplicity: [1]
GML: Provided in EntityWithLifeCycle	CSV: END_DATE	GeoPackage: end_date
Definition: The date on which this record ceased to exist.		
Type: Date		Multiplicity: [0..1]
GML: Provided in EntityWithLifeCycle	CSV: LAST_UPDATE_DATE	GeoPackage: last_update_date
Definition: The date on which an attribute on this record was last changed.		
Type: Date		Multiplicity: [1]
GML: Provided in EntityWithLifeCycle	CSV: ENTRY_DATE	GeoPackage: entry_date
Definition: The date on which the record was entered into the Local Authority database.		
Type: Date		Multiplicity: [1]

2.2.4 BLPU – (Type 21 Record)

BLPU – (Type 21 Record)		
GML: Not provided in GML	CSV: Not Provided in CSV	GeoPackage: fid
Definition: A non-persistent integer which is autogenerated and is required within the OGC GeoPackage format.		
Type: Integer		Multiplicity: [1]
GML: Not provided in GML	CSV: RECORD_IDENTIFIER	GeoPackage: Not provided in GeoPackage
Definition: Identifies this record as a BLPU Record (type 21).		
Type: Integer	Size: 2	Multiplicity: [1]

BLPU – (Type 21 Record)		
GML: Provided in FeatureWithLifeCycle	CSV: CHANGE_TYPE	GeoPackage: change_type
Definition: Type of record change – please see Section 4 for more information.		
Type: ChangeTypeCode	Size: 1	Multiplicity: [1]
GML: Not provided in GML	CSV: PRO_ORDER	GeoPackage: Not provided in GeoPackage
Definition: The order in which the records were processed in to create the data supply.		
Type: Integer	Size: 16	Multiplicity: [1]
GML: uprn	CSV: UPRN	GeoPackage: uprn
Definition: Unique Property Reference Number (UPRN) assigned by the LLPG Custodian or Ordnance Survey.		
Type: Integer	Size: 12	Multiplicity: [1]
GML: logicalStatus	CSV: LOGICAL_STATUS	GeoPackage: logical_status
Definition: Logical status of this address record as given by the local custodian. This attribute shows whether the address is currently live, provisional or historic.		
Type: LogicalStatusCode	Size: 1	Multiplicity: [1]
GML: blpuState	CSV: BLPU_STATE	GeoPackage: blpu_state
Definition: A code identifying the current state of the BLPU.		
Type: BlpuStateCode	Size: 1	Multiplicity: [0..1]
GML: blpuStateDate	CSV: BLPU_STATE_DATE	GeoPackage: blpu_state_date
Definition: Date at which the BLPU achieved its current state as defined in the BLPU State field.		
Condition: BLPU State Date must be present if BLPU State is present.		
Type: Date		Multiplicity: [0..1]
GML: parentUPRN	CSV: PARENT_UPRN	GeoPackage: parent_uprn
Definition: UPRN of the parent Record if a parent child relationship exists.		
Type: Integer	Size: 12	Multiplicity: [0..1]
GML: position	CSV: X_COORDINATE, Y_COORDINATE	GeoPackage: x_coordinate, y_coordinate

BLPU – (Type 21 Record)		
Definition: A value in metres defining the x and y location in accordance with the British National Grid.		
Type: GML – GM_Point CSV – Float GeoPackage – Double	Size: X_COORDINATE (precision, scale) – (8, 2) Y_COORDINATE (precision, scale) – (9, 2)	Multiplicity: [1]
GML: positionLatLong	CSV: LATITUDE, LONGITUDE	GeoPackage: latitude, longitude
Definition: A value defining the Latitude and Longitude location in accordance with the ETRS89 coordinate reference system.		
Type: GML – GM_Point CSV – Float GeoPackage – Double	Size: LATITUDE (precision, scale) – (9, 7) LONGITUDE (precision, scale) – (8, 7)	Multiplicity: [1]
GML: rpc	CSV: RPC	GeoPackage: rpc
Definition: Representative Point Code: this describes the accuracy of the coordinate that has been allocated to the BLPU as indicated by the local authority custodian.		
Type: RPCCode	Size: 1	Multiplicity: [1]
GML: localCustodianCode	CSV: LOCAL_CUSTODIAN_CODE	GeoPackage: local_custodian_code
Definition: Unique identifier of the Local Authority Custodian responsible for the maintenance of this record.		
Type: Integer	Size: 4	Multiplicity: [1]
GML: country	CSV: COUNTRY	GeoPackage: country
Definition: The country in which a record can be found. This is calculated by performing an intersection with OS Boundary Line. This means records such as wind and fish farms will be assigned a value of 'J'. Please see CountryCode for more information.		
Type: CountryCode	Size: 1	Multiplicity: [1]
GML: Provided in FeatureWithLifeCycle	CSV: START_DATE	GeoPackage: start_date
Definition: The date on which the address record was inserted into the database.		

BLPU – (Type 21 Record)		
Type: Date		Multiplicity: [1]
GML: Provided in FeatureWithLifeCycle	CSV: END_DATE	GeoPackage: end_date
Definition: The date on which the address record was closed in the database.		
Type: Date		Multiplicity: [0..1]
GML: Provided in FeatureWithLifeCycle	CSV: LAST_UPDATE_DATE	GeoPackage: last_update_date
Definition: The date on which any of the attributes on this record were last changed.		
Type: Date		Multiplicity: [1]
GML: Provided in FeatureWithLifeCycle	CSV: ENTRY_DATE	GeoPackage: entry_date
Definition: The date on which this record was inserted into the Local Authority database.		
Type: Date		Multiplicity: [1]
GML: addressbasePostal	CSV: ADDRESSBASE_POSTAL	GeoPackage: addressbase_postal
Definition: Identifies addresses which are believed to be capable of receiving mail as defined specifically for the AddressBase products and details their relationship with other AddressBase Postal records. N.B. This field identifies some addresses which the AddressBase product believes to be capable of receiving mail which are not contained within the Royal Mail PAF database, such as flats behind a front door with single letter box.		
Type: AddressbasePostalCode	Size: 1	Multiplicity: [1]
GML: postcodeLocator	CSV: POSTCODE_LOCATOR	GeoPackage: postcode_locator
Definition: This field contains the Royal Mail Postcode Address File (PAF) postcode where the local authority address has been matched to PAF, i.e. the POSTCODE field found within the Delivery Point Address table. Where a match has not been made, the postcode information is sourced from the local authority in collaboration with Royal Mail. Where the local authority does not hold a current valid postcode, a nearest neighbour function is used to spatially derive the postcode based on the position of the nearest UPRN which has a valid PAF match or valid local authority postcode assigned to it. The postcode value for Street Records (Classification "PS") will always be spatially assigned. This field must be used in conjunction with the RPC field to determine the accuracy of its position.		
Type: GML – CharacterString CSV – char GeoPackage – String	Size: 8	Multiplicity: [1]

BLPU – (Type 21 Record)		
GML: multiOccCount	CSV: MULTI_OCC_COUNT	GeoPackage: multi_occ_count
Definition: This is a count of all of the child UPRNs for this record where a parent-child relationship exists.		
Type: Integer	Size: 4	Multiplicity: [1]

2.2.5 Application Cross Reference – (Type 23 Record)

Application Cross Reference – (Type 23 Record)		
GML: Not provided in GML	CSV: Not Provided in CSV	GeoPackage: fid
Definition: A non-persistent integer which is autogenerated and is required within the OGC GeoPackage format.		
Type: Integer		Multiplicity: [1]
GML: Not provided in GML	CSV: RECORD_IDENTIFIER	GeoPackage: Not provided in GeoPackage
Definition: Identifies this record as an Application Cross Reference Record (type 23).		
Type: Integer	Size: 2	Multiplicity: [1]
GML: Not provided in GML on this datatype	CSV: CHANGE_TYPE	GeoPackage: change_type
Definition: Type of record change – please see Section 4 for more information.		
Type: ChangeTypeCode	Size: 1	Multiplicity: [1]
GML: Not provided in GML	CSV: PRO_ORDER	GeoPackage: Not provided in GeoPackage
Definition: The order in which the records were processed in to create the data supply.		
Type: Integer	Size: 16	Multiplicity: [1]
GML: Not provided in GML on this datatype	CSV: UPRN	GeoPackage: uprn
Definition: Unique Property Reference Number (UPRN) - foreign key used to reference the application cross reference record to the corresponding BLPU.		
Type: Integer	Size: 12	Multiplicity: [1]

Application Cross Reference – (Type 23 Record)		
GML: xrefKey	CSV: XREF_KEY	GeoPackage: xref_key
Definition: Unique key for the application cross reference record and primary key for this table.		
Type: GML – CharacterString CSV – char GeoPackage – String	Size: 14	Multiplicity: [1]
GML: crossReference	CSV: CROSS_REFERENCE	GeoPackage: cross_reference
Definition: Primary key of corresponding record in an external dataset.		
Type: GML – CharacterString CSV – char GeoPackage – String	Size: 50	Multiplicity: [1]
GML: version	CSV: VERSION	GeoPackage: version
Definition: Certain data sources may reference objects with lifecycles. This field enables users to reference specific versions of an object, for example, OS MasterMap Topographic Layer TOID and Version.		
Condition: Version must be present if Source value is one of the following: 7666MT, 7666MA or 7666MI.		
Type: Integer	Size: 3	Multiplicity: [0..1]
GML: source	CSV: SOURCE	GeoPackage: source
Definition: External dataset identity.		
Type: GML – CharacterString CSV – char GeoPackage – String	Size: 6	Multiplicity: [1]
GML: Provided in EntityWithLifeCycle	CSV: START_DATE	GeoPackage: start_date
Definition: Date the feature was matched to the cross reference dataset for the first time.		
Type: Date		Multiplicity: [1]
GML: Provided in EntityWithLifeCycle	CSV: END_DATE	GeoPackage: end_date
Definition: The date on which the external cross reference was no longer valid.		
Type: Date		Multiplicity: [0..1]

Application Cross Reference – (Type 23 Record)		
GML: Provided in EntityWithLifeCycle	CSV: LAST_UPDATE_DATE	GeoPackage: last_update_date
Definition: The date on which any attribute on this record was last changed.		
Type: Date		Multiplicity: [1]
GML: Provided in EntityWithLifeCycle	CSV: ENTRY_DATE	GeoPackage: entry_date
Definition: The date on which the Local Authority record matched to the cross reference was inserted into the Local Authority database.		
Type: Date		Multiplicity: [1]

Values for the SOURCE (source) column

Dataset ID	Data source	Multiplicity
7666MT	OS MasterMap Topography Layer TOID.	[0..1]
7666MA	OS MasterMap Address Layer 2 TOID.	[0..1]
7666MI	OS MasterMap Highways TOID.	[0..1]
7666VC	Centrally created Council Tax.	[0..1]
7666VN	Centrally created non domestic rates.	[0..1]
7666OW	ONS Ward Code.	[0..1]
7666OP	ONS Parish Code.	[0..1]

Note: The values in the table above are not a code list and may be amended or extended in the future.

2.2.6 LPI – (Type 24 Record)

LPI – (Type 24 Record)		
GML: Not provided in GML	CSV: Not Provided in CSV	GeoPackage: fid
Definition: A non-persistent integer which is autogenerated and is required within the OGC GeoPackage format.		
Type: Integer		Multiplicity: [1]
GML: Not provided in GML	CSV: RECORD_IDENTIFIER	GeoPackage: Not provided in GeoPackage
Definition: Identifies this Record as an LPI Record (type 24).		
Type: Integer	Size: 2	Multiplicity: [1]

LPI – (Type 24 Record)		
GML: Not provided in GML on this datatype	CSV: CHANGE_TYPE	GeoPackage: change_type
Definition: Type of record change – please see Section 4 for more information.		
Type: ChangeTypeCode	Size: 1	Multiplicity: [1]
GML: Not provided in GML	CSV: PRO_ORDER	GeoPackage: Not provided in GeoPackage
Definition: The order in which the records were processed in to create the data supply.		
Type: Integer	Size: 16	Multiplicity: [1]
GML: Not provided in GML on this datatype	CSV: UPRN	GeoPackage: uprn
Definition: Unique Property Reference Number (UPRN) - foreign key used to reference the LPI to the corresponding BLPU.		
Type: Integer	Size: 12	Multiplicity: [1]
GML: lpiKey	CSV: LPI_KEY	GeoPackage: lpi_key
Definition: Unique key for the LPI and primary key for this table.		
Type: GML – CharacterString CSV – char GeoPackage – String	Size: 14	Multiplicity: [1]
GML: language qualifiers are provided in the parent element as 'xml:lang'	CSV: LANGUAGE	GeoPackage: language
Definition: A code that identifies the language used for the LPI record.		
Type: LanguageCode	Size: 3	Multiplicity: [1]
GML: logicalStatus	CSV: LOGICAL_STATUS	GeoPackage: logical_status
Definition: Logical status of this record.		
Type: LogicalStatusCode	Size: 1	Multiplicity: [1]

LPI – (Type 24 Record)		
GML: Provided in EntityWithLifeCycle	CSV: START_DATE	GeoPackage: start_date
Definition: Date that this LPI record was first loaded into the database.		
Type: Date		Multiplicity: [1]
GML: Provided in EntityWithLifeCycle	CSV: END_DATE	GeoPackage: end_date
Definition: The date this record ceased to exist in the database.		
Type: Date		Multiplicity: [0..1]
GML: Provided in EntityWithLifeCycle	CSV: LAST_UPDATE_DATE	GeoPackage: last_update_date
Definition: The last date an attribute on this record was last changed.		
Type: Date		Multiplicity: [1]
GML: Provided in EntityWithLifeCycle	CSV: ENTRY_DATE	GeoPackage: entry_date
Definition: The date on which the record was inserted into the Local Authority database.		
Type: Date		Multiplicity: [1]
GML: saoStartNumber	CSV: SAO_START_NUMBER	GeoPackage: sao_start_number
Definition: The number of the secondary addressable object (SAO) or the start of the number range.		
Condition: If a SAO Start Number is present a PAO Start Number or PAO text must also be present.		
Type: Integer	Size: 4	Multiplicity: [0..1]
GML: saoStartSuffix	CSV: SAO_START_SUFFIX	GeoPackage: sao_start_suffix
Definition: The suffix to the SAO_START_NUMBER.		
Condition: If a SAO Start Suffix is present a SAO Start Number must also be present.		
Type: GML – CharacterString CSV – char GeoPackage – String	Size: 2	Multiplicity: [0..1]

LPI – (Type 24 Record)		
GML: saoEndNumber	CSV: SAO_END_NUMBER	GeoPackage: sao_end_number
Definition: The end of the number range for the SAO, where the SAO_START_NUMBER contains the first number in the range.		
Condition: If SAO End Number is present, a SAO Start Number must also be present.		
Type: Integer	Size: 4	Multiplicity: [0..1]
GML: saoEndSuffix	CSV: SAO_END_SUFFIX	GeoPackage: sao_end_suffix
Definition: The suffix to the SAO_END_NUMBER.		
Condition: If a SAO End Suffix is present, a SAO End Number must also be present.		
Type: GML – CharacterString CSV – char GeoPackage - String	Size: 2	Multiplicity: [0..1]
GML: saoText	CSV: SAO_TEXT	GeoPackage: sao_text
Definition: Contains the building name or description for the SAO.		
Condition: If SAO Text is present, a PAO Start Number or PAO Text must also be present.		
Type: GML – LocalisedCharacterString CSV – char GeoPackage - String	Size: 90	Multiplicity: [0..1]
GML: paoStartNumber	CSV: PAO_START_NUMBER	GeoPackage: pao_start_number
Definition: The number of the primary addressable object (PAO) or the start of the number range.		
Condition: PAO Start Number must be present if PAO Text is not present.		
Type: Integer	Size: 4	Multiplicity: [0..1]
GML: paoStartSuffix	CSV: PAO_START_SUFFIX	GeoPackage: pao_start_suffix
Definition: The suffix to the PAO_START_NUMBER.		
Condition: If a PAO Start Suffix is present, a PAO Start Number must also be present.		

LPI – (Type 24 Record)		
Type: GML – CharacterString CSV – char GeoPackage – String	Size: 2	Multiplicity: [0..1]
GML: paoEndNumber	CSV: PAO_END_NUMBER	GeoPackage: pao_end_number
Definition: The end of the number range for the PAO where the PAO_START_NUMBER contains the first number in the range.		
Condition: If a PAO End Number is present, a PAO Start Number must also be present.		
Type: Integer	Size: 4	Multiplicity: [0..1]
GML: paoEndSuffix	CSV: PAO_END_SUFFIX	GeoPackage: pao_end_suffix
Definition: The suffix to the PAO_END_NUMBER.		
Condition: If a PAO End Suffix is present, a PAO End Number must also be present.		
Type: GML – CharacterString CSV – char GeoPackage – String	Size: 2	Multiplicity: [0..1]
GML: paoText	CSV: PAO_TEXT	GeoPackage: pao_text
Definition: Contains the building name or description for the PAO.		
Condition: PAO Text must be present if PAO Start Number is not present.		
Type: GML – LocalisedCharacterString CSV – char GeoPackage - String	Size: 90	Multiplicity: [0..1]
GML: usrn	CSV: USRN	GeoPackage: usrn
Definition: Unique Street Reference Number (USRN) - foreign key linking the Street record to the LPI record.		
Type: Integer	Size: 8	Multiplicity: [1]

LPI – (Type 24 Record)		
GML: usrnMatchIndicator	CSV: USRN_MATCH_INDICATOR	GeoPackage: usrn_match_indicator
Definition: This field indicates how the item was matched to a Street. 1 is matched manually to the most accessible USRN and 2 is matched spatially to the nearest USRN, which may not be the nearest accessible street.		
Type: USRNMatchIndicatorCode	Size: 1	Multiplicity: [1]
GML: areaName	CSV: AREA_NAME	GeoPackage: area_name
Definition: Third level of geographic area name, for example, to record island names or property groups such as crofts.		
Type: GML – CharacterString CSV – char GeoPackage – String	Size: 40	Multiplicity: [0..1]
GML: level	CSV: LEVEL	GeoPackage: level
Definition: Detail on the vertical position of the property if known and provided by the Local Authority Custodian.		
Type: GML – CharacterString CSV – char GeoPackage – String	Size: 30	Multiplicity: [0..1]
GML: officialFlag	CSV: OFFICIAL_FLAG	GeoPackage: official_flag
Definition: Status of the Address.		
Type: OfficialFlagCode	Size: 1	Multiplicity: [0..1]

2.2.7 Delivery Point Address – (Type 28 Record)

Delivery Point Address – (Type 28 Record)		
GML: Not provided in GML	CSV: Not Provided in CSV	GeoPackage: fid
Definition: A non-persistent integer which is autogenerated and is required within the OGC GeoPackage format.		
Type: Integer		Multiplicity: [1]

Delivery Point Address – (Type 28 Record)		
GML: Not provided in GML	CSV: RECORD_IDENTIFIER	GeoPackage: Not provided in GeoPackage
Definition: Identifies the record as a Royal Mail Delivery Point Address Record (type 28).		
Type: Integer	Size: 2	Multiplicity: [1]
GML: Not provided in GML on this datatype	CSV: CHANGE_TYPE	GeoPackage: change_type
Definition: Type of record change – please see Section 4 for more information.		
Type: ChangeTypeCode	Size: 1	Multiplicity: [1]
GML: Not provided in GML	CSV: PRO_ORDER	GeoPackage: Not provided in GeoPackage
Definition: The order in which the records were processed in to create the data supply.		
Type: Integer	Size: 16	Multiplicity: [1]
GML: Not provided in GML on this datatype	CSV: UPRN	GeoPackage: uprn
Definition: Unique Property Reference Number (UPRN) - foreign key used to reference the DPA record to the corresponding BLPU.		
Type: Integer	Size: 12	Multiplicity: [1]
GML: udprn	CSV: UDPRN	GeoPackage: udprn
Definition: Royal Mail's Unique Delivery Point Reference Number (UDPRN) and the Primary key for this table.		
Type: Integer	Size: 8	Multiplicity: [1]
GML: organisationName	CSV: ORGANISATION_NAME	GeoPackage: organisation_name
Definition: The organisation name is the business name given to a delivery point within a building or small group of buildings. For example: TOURIST INFORMATION CENTRE This field could also include entries for churches, public houses and libraries. Source: Royal Mail		
Condition: Organisation Name must be present if Building Name or Building Number or PO Box Number are all not present.		

Delivery Point Address – (Type 28 Record)		
Type: GML – LocalisedCharacterString CSV – char GeoPackage – String	Size: 60	Multiplicity: [0..1]
GML: departmentName	CSV: DEPARTMENT_NAME	GeoPackage: department_name
Definition: For some organisations, department name is indicated because mail is received by subdivisions of the main organisation at distinct delivery points. For example: Organisation Name: ABC COMMUNICATIONS RM Department Name: MARKETING DEPARTMENT Source: Royal Mail		
Condition: If a Department Name is present an Organisation Name must also be present.		
Type: GML – LocalisedCharacterString CSV – char GeoPackage – String	Size: 60	Multiplicity: [0..1]
GML: subBuildingName	CSV: SUB_BUILDING_NAME	GeoPackage: sub_building_name
Definition: The sub-building name and/or number are identifiers for subdivisions of properties. For example: Sub-building Name: FLAT 3 Building Name: POPLAR COURT Thoroughfare: LONDON ROAD *NOTE: If the above address is styled 3 POPLAR COURT, all the text will be shown in the Building Name attribute and the Sub-building Name will be empty. The building number will be shown in this field when it contains a range, decimal or non-numeric character (see Building Number).* Source: Royal Mail		
Condition: If a Sub Building Name is present a Building Name or Building Number must also be present.		
Type: GML – LocalisedCharacterString CSV – char GeoPackage – String	Size: 30	Multiplicity: [0..1]

Delivery Point Address – (Type 28 Record)		
GML: buildingName	CSV: BUILDING_NAME	GeoPackage: building_name
Definition: The building name is a description applied to a single building or a small group of buildings, such as Highfield House. This also includes those building numbers that contain non-numeric characters, such as 44A. Some descriptive names, when included with the rest of the address, are sufficient to identify the property uniquely and unambiguously, for example, MAGISTRATES COURT. Sometimes the building name will be a blend of distinctive and descriptive naming, for example, RAILWAY TAVERN (PUBLIC HOUSE) or THE COURT ROYAL (HOTEL). Source: Royal Mail		
Condition: Building Name must be present if Organisation Name or Building Number or PO Box Number are all not present.		
Type: GML – LocalisedCharacterString CSV – char GeoPackage - String	Size: 50	Multiplicity: [0..1]
GML: buildingNumber	CSV: BUILDING_NUMBER	GeoPackage: building_n
Definition: The building number is a number given to a single building or a small group of buildings, thus identifying it from its neighbours, for example, 44. Building numbers that contain a range, decimals or non-numeric characters do not appear in this field but will be found in the building name or the sub-building name fields. Source: Royal Mail		
Condition: Building Number must be present if Organisation Name or Building Name or PO Box Number are all not present.		
Type: Integer	Size: 4	Multiplicity: [0..1]
GML: dependentThoroughfare	CSV: DEPENDENT_THOROUGHFARE	GeoPackage: dependent_thoroughfare
Definition: In certain places, for example, town centres, there are named thoroughfares within other named thoroughfares, for example, parades of shops on a high street where different parades have their own identity. For example, KINGS PARADE, HIGH STREET and QUEENS PARADE, HIGH STREET. Source: Royal Mail		
Condition: If a Dependent Thoroughfare is present a Thoroughfare value must also be present.		
Type: GML – LocalisedCharacterString	Size: 80	Multiplicity: [0..1]

Delivery Point Address – (Type 28 Record)		
CSV – char GeoPackage - String		
GML: thoroughfare	CSV: THOROUGHFARE	GeoPackage: thoroughfare
Definition: A thoroughfare in AddressBase is fundamentally a road, track or named access route on which there are Royal Mail delivery points, for example, HIGH STREET. Source: Royal Mail		
Type: GML – LocalisedCharacterString CSV – char GeoPackage - String	Size: 80	Multiplicity: [0..1]
GML: doubleDependentLocality	CSV: DOUBLE_DEPENDENT_LOCALITY	GeoPackage: double_dependent_locality
Definition: This is used to distinguish between similar thoroughfares or the same thoroughfare within a dependent locality. For example, Millbrook Industrial Estate and Cranford Estate in this situation: BRUNEL WAY, MILLBROOK INDUSTRIAL ESTATE, MILLBROOK, SOUTHAMPTON and BRUNEL WAY, CRANFORD ESTATE, MILLBROOK, SOUTHAMPTON. Source: Royal Mail		
Condition: If a Double Dependent Locality is present a Dependent Locality must also be present.		
Type: GML – LocalisedCharacterString CSV – char GeoPackage - String	Size: 35	Multiplicity: [0..1]
GML: dependentLocality	CSV: DEPENDENT_LOCALITY	GeoPackage: dependent_locality
Definition: Dependent locality areas define an area within a post town. These are only necessary for postal purposes and are used to aid differentiation where there are thoroughfares of the same name in the same locality. For example, HIGH STREET in SHIRLEY and SWAYTHLING in this situation: HIGH STREET, SHIRLEY, SOUTHAMPTON and HIGH STREET, SWAYTHLING, SOUTHAMPTON. Source: Royal Mail		
Type: GML – LocalisedCharacterString CSV – char GeoPackage - String	Size: 35	Multiplicity: [0..1]

Delivery Point Address – (Type 28 Record)		
GML: postTown	CSV: POST_TOWN	GeoPackage: post_town
Definition: The town or city in which the Royal Mail sorting office is located which services this record. There may be more than one, possibly several, sorting offices in a town or city. Source: Royal Mail		
Type: GML – LocalisedCharacterString CSV – char GeoPackage - String	Size: 30	Multiplicity: [1]
GML: postcode	CSV: POSTCODE	GeoPackage: postcode
Definition: A postcode is an abbreviated form of address made up of combinations of between five and seven alphanumeric characters. These are used by Royal Mail to help with the automated sorting of mail. A postcode may cover between 1 and 100 addresses. There are two main components of a postcode, for example, NW6 4DP: • The outward code (or 'outcode'). The first two–four characters of the postcode constituting the postcode area and the postcode district, for example, NW6. It is the part of the postcode that enables mail to be sent from the accepting office to the correct area for delivery. • The inward code (or 'incode'). The last three characters of the postcode constituting the postcode sector and the postcode unit, example, 4DP. It is used to sort mail at the local delivery office. Source: Royal Mail		
Type: GML – CharacterString CSV – char GeoPackage - String	Size: 8	Multiplicity: [1]
GML: postcodeType	CSV: POSTCODE_TYPE	GeoPackage: postcode_type
Definition: Describes the address as a small or large user as defined by Royal Mail. Source: Royal Mail		
Condition: If PO Box number is present, Postcode Type must be 'L'.		
Type: PostcodeTypeCode	Size: 1	Multiplicity: [1]
GML: deliveryPointSuffix	CSV: DELIVERY_POINT_SUFFIX	GeoPackage: delivery_point_suffix
Definition: A two-character code uniquely identifying an individual delivery point within a postcode. Source: Royal Mail		
Type: GML – CharacterString CSV – char	Size: 2	Multiplicity: [1]

Delivery Point Address – (Type 28 Record)		
GeoPackage - String		
GML: welshDependentThoroughfare	CSV: WELSH_DEPENDENT_THOROUGHFARE	GeoPackage: welsh_dependent_thoroughfare
Definition: The Welsh translation of DEPENDENT_THOROUGHFARE Source: Royal Mail		
Condition: If a Welsh Dependent Thoroughfare is present, a Welsh Thoroughfare must also be present.		
Type: GML – LocalisedCharacterString CSV – char GeoPackage - String	Size: 80	Multiplicity: [0..1]
GML: welshThoroughfare	CSV: WELSH_THOROUGHFARE	GeoPackage: welsh_thoroughfare
Definition: The Welsh translation of THOROUGHFARE. Source: Royal Mail		
Type: GML – LocalisedCharacterString CSV -char GeoPackage - String	Size: 80	Multiplicity: [0..1]
GML: welshDoubleDependentLocality	CSV: WELSH_DOUBLE_DEPENDENT_LOCALITY	GeoPackage: welsh_double_dependent_locality
Definition: The Welsh translation of Double Dependent Locality. Source: Royal Mail		
Condition: If a Welsh Double Dependent Locality is present, a Welsh Dependent Locality must also be present.		
Type: GML – LocalisedCharacterString CSV – char GeoPackage - String	Size: 35	Multiplicity: [0..1]
GML: welshDependentLocality	CSV: WELSH_DEPENDENT_LOCALITY	GeoPackage: welsh_dependent_locality
Definition: The Welsh translation of DEPENDENT_LOCALITY.		

Delivery Point Address – (Type 28 Record)		
Source: Royal Mail		
Type: GML – LocalisedCharacterString CSV – char GeoPackage - String	Size: 35	Multiplicity: [0..1]
GML: welshPostTown	CSV: WELSH_POST_TOWN	GeoPackage: welsh_post_town
Definition: The Welsh translation of post town value. Source: Royal Mail		
Type: GML – LocalisedCharacterString CSV – char GeoPackage - String	Size: 30	Multiplicity: [0..1]
GML: poBoxNumber	CSV: PO_BOX_NUMBER	GeoPackage: po_box_number
Definition: Post Office Box (PO Box) number. Source: Royal Mail		
Condition: Organisation Name or PO Box Number must be present if Building Name or Building Number are all not present.		
Type: GML – CharacterString CSV – char GeoPackage - String	Size: 6	Multiplicity: [0..1]
GML: processDate	CSV: PROCESS_DATE	GeoPackage: process_date
Definition: The date on which the PAF record was processed into the database.		
Type: Date		Multiplicity: [1]
GML: Provided in EntityWithLifeCycle	CSV: START_DATE	GeoPackage: start_date
Definition: The date on which the address record was matched to the Delivery Point Address.		
Type: Date		Multiplicity: [1]
GML: Provided in EntityWithLifeCycle	CSV: END_DATE	GeoPackage: end_date
Definition: The date on which the PAF record no longer existed in the database.		
Type: Date		Multiplicity: [0..1]

Delivery Point Address – (Type 28 Record)		
GML: Provided in EntityWithLifeCycle	CSV: LAST_UPDATE_DATE	GeoPackage: last_update_date
Definition: The date on which any attribute on this record was last changed.		
Type: Date		Multiplicity: [1]
GML: Provided in EntityWithLifeCycle	CSV: ENTRY_DATE	GeoPackage: entry_date
Definition: The date on which the PAF record was first loaded by Geoplace.		
Type: Date		Multiplicity: [1]

2.2.8 Metadata – (Type 29 Record)

Metadata – (Type 29 Record)		
GML: A Metadata Record is not provided in GML	CSV: RECORD_IDENTIFIER	GeoPackage: A Metadata Record is not provided in GeoPackage
Definition: Identifies the record as a Metadata Record (type 29).		
Type: Integer	Size: 2	Multiplicity: [1]
GML: A Metadata Record is not provided in GML	CSV: GAZ_NAME	GeoPackage: A Metadata Record is not provided in GeoPackage
Definition: Name of the Gazetteer, this will most likely reflect the product name, for example, AddressBase Premium.		
Type: char	Size: 60	Multiplicity: [1]
GML: A Metadata Record is not provided in GML	CSV: GAZ_SCOPE	GeoPackage: A Metadata Record is not provided in GeoPackage
Definition: Description of the content of the gazetteer.		
Type: char	Size: 60	Multiplicity: [1]
GML: A Metadata Record is not provided in GML	CSV: TER_OF_USE	GeoPackage: A Metadata Record is not provided in GeoPackage
Definition: Geographic domain of the gazetteer, for example, England, Wales and Scotland.		
Type: char	Size: 60	Multiplicity: [1]

Metadata – (Type 29 Record)		
GML: A Metadata Record is not provided in GML	CSV: LINKED_DATA	GeoPackage: A Metadata Record is not provided in GeoPackage
Definition: List of other datasets used to contribute to the creation of the product.		
Type: char	Size: 100	Multiplicity: [1]
GML: A Metadata Record is not provided in GML	CSV: GAZ_OWNER	GeoPackage: A Metadata Record is not provided in GeoPackage
Definition: The organisation with overall responsibility for the gazetteer.		
Type: char	Size: 15	Multiplicity: [1]
GML: A Metadata Record is not provided in GML	CSV: NGAZ_FREQ	GeoPackage: A Metadata Record is not provided in GeoPackage
Definition: Frequency with which the data is maintained and sent to the customer.		
Type: char	Size: 1	Multiplicity: [1]
GML: A Metadata Record is not provided in GML	CSV: CUSTODIAN_NAME	GeoPackage: A Metadata Record is not provided in GeoPackage
Definition: Organisation or department responsible for the compilation and maintenance of the data, for example Geoplace.		
Type: char	Size: 40	Multiplicity: [1]
GML: A Metadata Record is not provided in GML	CSV: CUSTODIAN_UPRN	GeoPackage: A Metadata Record is not provided in GeoPackage
Definition: Unique Property Reference Number (UPRN) of the custodian location.		
Type: Integer	Size: 12	Multiplicity: [1]
GML: A Metadata Record is not provided in GML	CSV: LOCAL_CUSTODIAN_CODE	GeoPackage: A Metadata Record is not provided in GeoPackage
Definition: Four-digit code identifying the gazetteer custodian.		
Type: Integer	Size: 4	Multiplicity: [1]

Metadata – (Type 29 Record)		
GML: A Metadata Record is not provided in GML	CSV: CO_ORD_SYSTEM	GeoPackage: A Metadata Record is not provided in GeoPackage
Definition: Coordinate Reference System used in the gazetteer to describe the position, for example British National Grid.		
Type: char	Size: 40	Multiplicity: [1]
GML: A Metadata Record is not provided in GML	CSV: CO_ORD_UNIT	GeoPackage: A Metadata Record is not provided in GeoPackage
Definition: Unit of measurement of coordinates.		
Type: char	Size: 10	Multiplicity: [1]
GML: A Metadata Record is not provided in GML	CSV: META_DATE	GeoPackage: A Metadata Record is not provided in GeoPackage
Definition: Date metadata was last updated.		
Type: Date		Multiplicity: [1]
GML: A Metadata Record is not provided in GML	CSV: CLASS_SCHEME	GeoPackage: A Metadata Record is not provided in GeoPackage
Definition: Classification scheme (s) used in the Gazetteer.		
Type: char	Size: 60	Multiplicity: [1]
GML: A Metadata Record is not provided in GML	CSV: GAZ_DATE	GeoPackage: A Metadata Record is not provided in GeoPackage
Definition: Date at which the gazetteer can be considered to be current.		
Type: Date		Multiplicity: [1]
GML: A Metadata Record is not provided in GML	CSV: LANGUAGE	GeoPackage: A Metadata Record is not provided in GeoPackage
Definition: Language used for the descriptors within the gazetteer, for example 'ENG'.		
Type: LanguageCode	Size: 3	Multiplicity: [1]
GML: A Metadata Record is not provided in GML	CSV: CHARACTER_SET	GeoPackage: A Metadata Record is not provided in GeoPackage
Definition: The character set used in this gazetteer.		
Type: char	Size: 30	Multiplicity: [1]

2.2.9 Successor Cross Reference – (Type 30 Record)

Please note that this record type is not currently utilised in the product.

Successor Cross Reference – (Type 30 Record)		
GML: Not provided in GML	CSV: Not Provided in CSV	GeoPackage: fid
Definition: A non-persistent integer which is autogenerated and is required within the OGC GeoPackage format.		
Type: Integer		Multiplicity: [1]
GML: Not provided in GML	CSV: RECORD_IDENTIFIER	GeoPackage: Not provided in GeoPackage
Definition: Identifies this record as a Successor Cross Reference (type 30).		
Type: Integer	Size: 2	Multiplicity: [1]
GML: Not provided in GML on this datatype	CSV: CHANGE_TYPE	GeoPackage: change_type
Definition: Type of record change – please see Section 4 for more information.		
Type: ChangeTypeCode	Size: 1	Multiplicity: [1]
GML: Not provided in GML	CSV: PRO_ORDER	GeoPackage: Not provided in GeoPackage
Definition: The order in which the records were processed in to create the data supply.		
Type: Integer	Size: 16	Multiplicity: [1]
GML: uprn	CSV: UPRN	GeoPackage: uprn
Definition: Unique Property Reference Number.		
Type: Integer	Size: 12	Multiplicity: [1]
GML: succKey	CSV: SUCC_KEY	GeoPackage: succ_key
Definition: Key value to uniquely identify the successor cross reference record and the primary key for this table.		
Type: GML – CharacterString CSV – char GeoPackage - String	Size: 14	Multiplicity: [1]

Successor Cross Reference – (Type 30 Record)		
GML: Provided in EntityWithLifeCycle	CSV: START_DATE	GeoPackage: start_date
Definition: Date on which the record was first loaded into the database.		
Type: Date		Multiplicity: [1]
GML: Provided in EntityWithLifeCycle	CSV: END_DATE	GeoPackage: end_date
Definition: The date on which the record ceased to exist.		
Type: Date		Multiplicity: [0..1]
GML: Provided in EntityWithLifeCycle	CSV: LAST_UPDATE_DATE	GeoPackage: last_update_date
Definition: The date on which any attribute on this record was last changed.		
Type: Date		Multiplicity: [1]
GML: Provided in EntityWithLifeCycle	CSV: ENTRY_DATE	GeoPackage: entry_date
Definition: The date on which the UPRN attached to this record was entered into the Local Authority database.		
Type: Date		Multiplicity: [1]
GML: successor	CSV: SUCCESSOR	GeoPackage: successor
Definition: UPRN of successor BLPU.		
Type: Integer	Size: 12	Multiplicity: [1]

2.2.10 Organisation – (Type 31 Record)

Organisation – (Type 31 Record)		
GML: Not provided in GML	CSV: Not Provided in CSV	GeoPackage: fid
Definition: A non-persistent integer which is autogenerated and is required within the OGC GeoPackage format.		
Type: Integer		Multiplicity: [1]
GML: Not provided in GML	CSV: RECORD_IDENTIFIER	GeoPackage: Not Provided in GeoPackage
Definition: Identifies this as an Organisation Record (type 31).		
Type: Integer	Size: 2	Multiplicity: [1]
GML: Not provided in GML on this datatype	CSV: CHANGE_TYPE	GeoPackage: Not Provided in GeoPackage
Definition: Type of record change – please see Section 4 for more information.		
Type: ChangeTypeCode	Size: 1	Multiplicity: [1]
GML: Not provided in GML	CSV: PRO_ORDER	GeoPackage: Not Provided in GeoPackage
Definition: The order in which the records were processed in to create the data supply.		
Type: Integer	Size: 16	Multiplicity: [1]
GML: Not provided in GML on this datatype	CSV: UPRN	GeoPackage: uprn
Definition: Unique Property Reference Number (UPRN) – foreign key used to reference the organisation record to the corresponding BLPU.		
Type: Integer	Size: 12	Multiplicity: [1]
GML: orgKey	CSV: ORG_KEY	GeoPackage: org_key
Definition: Unique key for the organisation record and primary key for this table.		
Type: GML – CharacterString CSV – char GeoPackage - String	Size: 14	Multiplicity: [1]

Organisation – (Type 31 Record)		
GML: organisation	CSV: ORGANISATION	GeoPackage: organisation
Definition: Name of the organisation currently occupying the address record as provided by the local authority custodian.		
Type: GML – CharacterString CSV – char GeoPackage - String	Size: 100	Multiplicity: [1]
GML: legalName	CSV: LEGAL_NAME	GeoPackage: legal_name
Definition: Registered legal name of the organisation.		
Type: GML – CharacterString CSV – char GeoPackage - String	Size: 60	Multiplicity: [0..1]
GML: Provided in EntityWithLifeCycle	CSV: START_DATE	GeoPackage: start_date
Definition: The date on which this record was first loaded into the database.		
Type: Date		Multiplicity: [1]
GML: Provided in EntityWithLifeCycle	CSV: END_DATE	GeoPackage: end_date
Definition: The date on which this record ceased to exist.		
Type: Date		Multiplicity: [0..1]
GML: Provided in EntityWithLifeCycle	CSV: LAST_UPDATE_DATE	GeoPackage: last_update_date
Definition: The date on which an attribute on this record was last changed.		
Type: Date		Multiplicity: [1]
GML: Provided in EntityWithLifeCycle	CSV: ENTRY_DATE	GeoPackage: entry_date
Definition: The date on which the UPRN linked to this record was entered into the Local Authority database.		
Type: Date		Multiplicity: [1]

2.2.11 Classification – (Type 32 Record)

Classification – (Type 32 Record)		
GML: Not provided in GML	CSV: Not Provided in CSV	GeoPackage: fid
Definition: A non-persistent integer which is autogenerated and is required within the OGC GeoPackage format.		
Type: Integer	Type: Integer	Type: Integer
GML: Not provided in GML	CSV: RECORD_IDENTIFIER	GeoPackage: Not provided in GeoPackage
Definition: Identifies this record as a Classification Record (type 32).		
Type: Integer	Size: 2	Multiplicity: [1]
GML: Not provided in GML on this datatype	CSV: CHANGE_TYPE	GeoPackage: change_type
Definition: Type of record change – please see Section 4 for more information.		
Type: ChangeTypeCode	Size: 1	Multiplicity: [1]
GML: Not provided in GML	CSV: PRO_ORDER	GeoPackage: Not provided in GeoPackage
Definition: The order in which the records were processed in to create the data supply.		
Type: Integer	Size: 16	Multiplicity: [1]
GML: Not provided in GML on this datatype	CSV: UPRN	GeoPackage: uprn
Definition: Unique Property Reference Number (UPRN) - foreign key used to reference the classification records to the corresponding BLPU.		
Type: Integer	Size: 12	Multiplicity: [1]
GML: classKey	CSV: CLASS_KEY	GeoPackage: class_key
Definition: Unique key for the classification record and primary key for this table.		
Type: GML – CharacterString CSV – char GeoPackage - String	Size: 14	Multiplicity: [1]
GML: classificationCode	CSV: CLASSIFICATION_CODE	GeoPackage: classification_code
Definition: A code that describes the classification of the record.		

Classification – (Type 32 Record)		
Type: GML – CharacterString CSV – char GeoPackage - String	Size: 6	Multiplicity: [1]
GML: classScheme	CSV: CLASS_SCHEME	GeoPackage: class_scheme
Definition: The name of the classification scheme used for this record.		
Type: GML – CharacterString CSV – char GeoPackage - String	Size: 60	Multiplicity: [1]
GML: schemeVersion	CSV: SCHEME_VERSION	GeoPackage: scheme_version
Definition: The classification scheme number.		
Type: GML - CharacterString CSV – float GeoPackage - Double	Size: (precision, scale) – 2(1)	Multiplicity: [1]
GML: Provided in EntityWithLifeCycle	CSV: START_DATE	GeoPackage: start_date
Definition: Date that this classification record was first loaded into the database.		
Type: Date		Multiplicity: [1]
GML: Provided in EntityWithLifeCycle	CSV: END_DATE	GeoPackage: end_date
Definition: Date this classification record ceased to exist.		
Type: Date		Multiplicity: [0..1]
GML: Provided in EntityWithLifeCycle	CSV: LAST_UPDATE_DATE	GeoPackage: last_update_date
Definition: The date on which an attribute on this record was last changed.		
Type: Date		Multiplicity: [1]
GML: Provided in EntityWithLifeCycle	CSV: ENTRY_DATE	GeoPackage: entry_date
Definition: The date on which the address record associated with this classification record was inserted into the Local Authority database.		
Type: Date		Multiplicity: [1]

2.2.12 Trailer – (Type 99 record)

Trailer – (Type 99 Record)		
GML: A Trailer Record is not provided in GML	CSV: RECORD_IDENTIFIER	GeoPackage: A Trailer Record is not provided in GeoPackage
Definition: Identifies the record as a Trailer Record (type 99).		
Type: Integer	Size: 2	Multiplicity: [1]
GML: A Trailer Record is not provided in GML	CSV: NEXT_VOLUME_NAME	GeoPackage: A Trailer Record is not provided in GeoPackage
Definition: The sequential number of the next volume in the transfer set. For geographic supply this will always be zero (0). For non-geographic supply zero (0) will denote the last file in the transfer set.		
Type: Integer	Size: 3	Multiplicity: [1]
GML: A Trailer Record is not provided in GML	CSV: RECORD_COUNT	GeoPackage: A Trailer Record is not provided in GeoPackage
Definition: Count of the number of records in the volume (excluding the header record, metadata and trailer records).		
Type: Integer	Size: 16	Multiplicity: [1]
GML: A Trailer Record is not provided in GML	CSV: ENTRY_DATE	GeoPackage: A Trailer Record is not provided in GeoPackage
Definition: The date of data entry.		
Type: Date		Multiplicity: [1]
GML: A Trailer Record is not provided in GML	CSV: TIME_STAMP	GeoPackage: A Trailer Record is not provided in GeoPackage
Definition: Time of creation in HH:MM:SS.		
Type: Time		Multiplicity: [1]

2.2.13 AddressBase supply set

This is not supplied as part of the CSV supply. Please see the model overviews earlier in this section.

AddressBase supply set		
GML: queryTime	CSV: Not in CSV	GeoPackage: Not in GeoPackage
Definition: Time the data was extracted from the database.		
Type: DateTime		Multiplicity: [1]
GML: queryChangeSinceDate	CSV: Not in CSV	GeoPackage: Not in GeoPackage
Definition: The date given as part of a change-only query		
Type: Date		Multiplicity: [0..1]

2.2.14 Entity with lifecycle

Entity with lifecycle		
GML: startDate	CSV: Not in CSV	GeoPackage: Not in GeoPackage
Definition: Date on which the record was first loaded into the database.		
Type: Date		Multiplicity: [1]
GML: endDate	CSV: Not in CSV	GeoPackage: Not in GeoPackage
Definition: The date on which the record ceased to exist.		
Type: Date		Multiplicity: [0..1]
GML: lastUpdateDate	CSV: Not in CSV	GeoPackage: Not in GeoPackage
Definition: The date on which any attribute on this record was last changed.		
Type: Date		Multiplicity: [1]
GML: entryDate	CSV: Not in CSV	GeoPackage: Not in GeoPackage
Definition: The date on which the record was entered into the Local Authority database.		
Type: Date		Multiplicity: [1]

2.2.15 Feature with lifecycle

Feature with lifecycle		
GML: changeType	CSV: Not in CSV	GeoPackage: Not in GeoPackage
Definition: Type of record change – please see Section 4 for more information.		
Type: ChangeTypeCode		Multiplicity: [1]
GML: startDate	CSV: Not in CSV	GeoPackage: Not in GeoPackage
Definition: Date on which the record was first loaded into the database.		
Type: Date		Multiplicity: [1]
GML: endDate	CSV: Not in CSV	GeoPackage: Not in GeoPackage
Definition: The date on which the record ceased to exist.		
Type: Date		Multiplicity: [0..1]
GML: lastUpdateDate	CSV: Not in CSV	GeoPackage: Not in GeoPackage
Definition: The date on which any attribute on this record was last changed.		
Type: Date		Multiplicity: [1]
GML: entryDate	CSV: Not in CSV	GeoPackage: Not in GeoPackage
Definition: The date on which the record was entered into the Local Authority database.		
Type: Date		Multiplicity: [1]

2.3 Code lists and enumerations

A code list or enumeration is a controlled set of values which can be used to populate a specific column. The code list and enumeration UML model associated with AddressBase Premium can be found in Figure 5 with their appropriate descriptions.

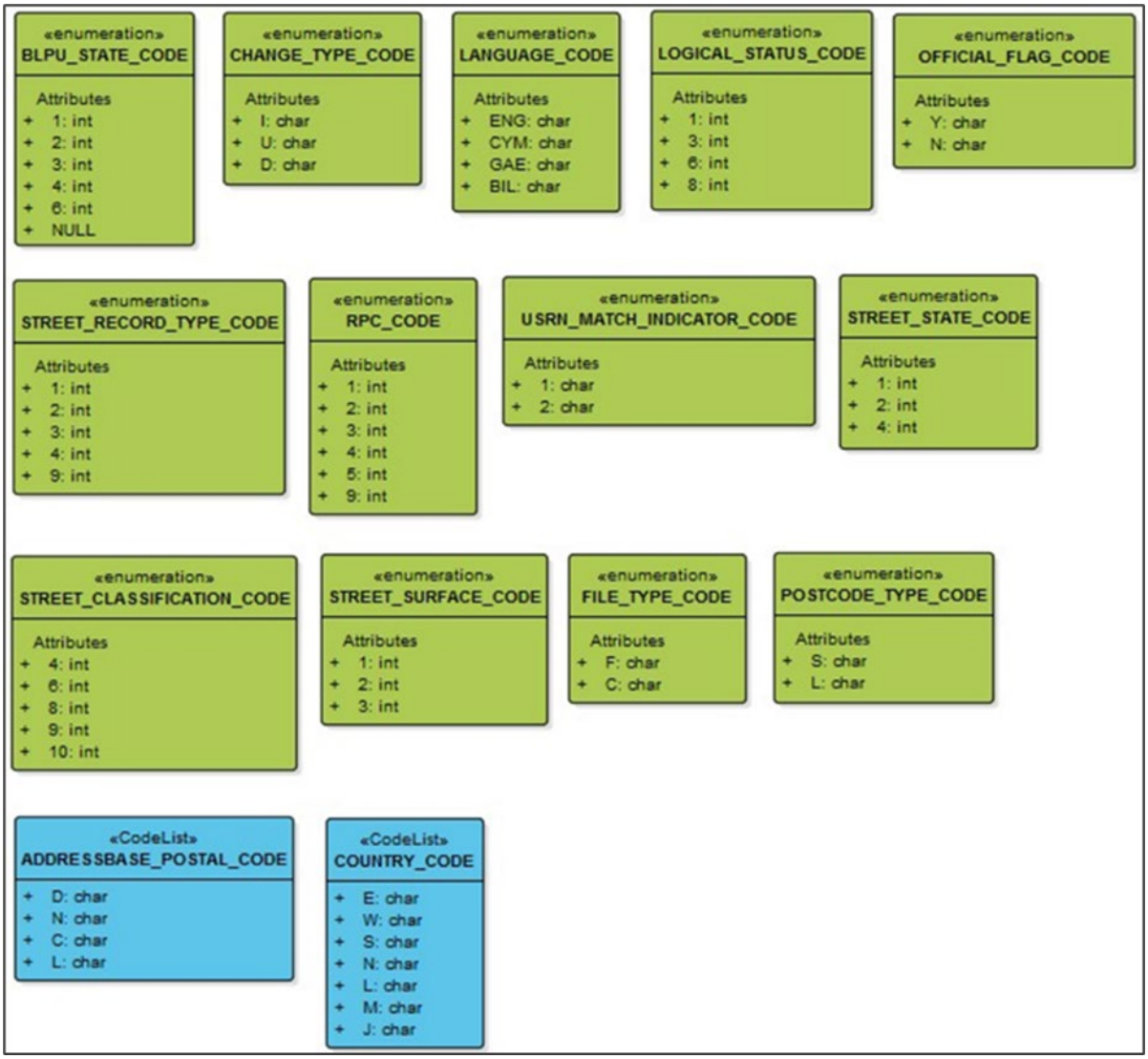

Figure 5. The code list and enumeration UML models associated with AddressBase Premium

AddressbasePostalCode

This code list is used in association with the attribute *addressbasePostalCode / ADDRESSBASE_POSTAL_CODE* found on the BLPU table. The code list describes the record as postal or not as defined by Addressbase logic.

Code list: AddressbasePostalCode	
Value	**Description**
D	A record which is linked to PAF
N	Not a postal address
C	A record which is postal and has a parent record which is linked to PAF
L	A record which is identified as postal based on Local Authority information

CountryCode

This code list is used in association with the attribute *country* / *COUNTRY* found on the BLPU table. The code list describes within which country the address feature falls within.

Code list: CountryCode	
Value	**Description**
E	This record is within England
W	This record is within Wales
S	This record is within Scotland
N	This record is within Northern Ireland
L	This record is within the Channel Islands
M	This record is within the Isle of Man
J	This record is not assigned to a country as it falls outside of the land boundaries used.

BLPUStateCode

This enumeration is used in association with the attribute *blpuState* / *BLPU_STATE*. This enumeration describes the physical nature of the address record.

Enumeration: StateCode	
Value	**Description**
1	under construction
2	In use
3	Unoccupied / vacant / derelict
4	No longer existing
6	Planning permission granted

RPCCode

This enumeration is used in association with the attribute *rpc* / *RPC*. This enumeration identifies the accuracy value of the coordinates allocated to the address.

Enumeration: RPCCode		
Value	**Description**	**Implementation notes**
1	Central Internal Position	The address seed is **contained within** an OS MasterMap Topography Layer **building** and **within 2.5m of its calculated centre**. *Or* The seed is in the best possible position based on the nature of the premises, for example, Development Land, House Boat, Wind Farm.
2	General Internal Position	The address seed is **contained within** an OS MasterMap Topography Layer **building** but is more than 2.5m away from its calculated centre. *Or* The seed is in an internal position based on the nature of the premises, for example, Development Land, House Boat.
3	Transitional Position	The address seed has been **changed from provisional to live in the last six months**. It has been captured to a high level of positional accuracy, but the **OS MasterMap Topography Layer feature is not yet captured**. *Please note the address seed will only be moved pending any imminent mapping updates.*
4	Street Location	The **address seed is plotted in accordance with the declared street** start or end coordinates. *Please note this is the highest accuracy possible for Street Records.*
5	Postcode Unit Position	The address seed has been **captured to Postcode Unit level**. It will be updated when more information becomes available.
9	Low accuracy – marked for priority review	This address seed has been captured to a **lower level of accuracy and will be updated as a priority** over the coming releases.

LanguageCode

This enumeration is used in association with the attribute *LANGUAGE* found in the Street Descriptor and LPI tables; and also the Metadata table for CSV supply. This enumeration identifies the language of the address displayed. Please note this is not required for the GML supply as the Language is specified in the GML tag 'xml:lang'.

Enumeration: LanguageCode	
Value	**Description**
ENG	English
CYM	Welsh
GAE	Gaelic (Scottish)
BIL	Bilingual

PostcodeTypeCode

This enumeration is used in association with the attribute *postcodeType* / *POSTCODE_TYPE* found in the Delivery Point Address table. This enumeration identifies the code used by Royal Mail to describe the user as a small or large user. This is defined for postal services based upon the number of letters delivered to that user.

Enumeration: PostcodeTypeCode	
Value	**Description**
S	A small user, for example a residential property
L	A large user, for example a large commercial company

OfficialFlagCode

This enumeration is used in association with the attribute *officialFlag* / *OFFICIAL_FLAG*. This enumeration is an indicator of whether an address record corresponds to an entry in the official Street Name and Numbering register.

Enumeration: OfficialFlagCode	
Value	**Description**
N	Unofficial Address
Y	Official Address

ChangeTypeCode

This enumeration is used in association with the attribute *ChangeType* / *CHANGE_TYPE*. This enumeration identifies the type of change that has been made to a feature. Please see Section 4 for more information.

Enumeration: ChangeTypeCode	
Value	**Description**
I	Insert
U	Update
D	Delete

USRNMatchIndicatorCode

This enumeration is used in association with the attribute *usrnMatchIndicator* / *USRN_MATCH_INDICATOR* found in the LPI table. This enumeration identifies how the USRN has been allocated to an address record.

Enumeration: USRNMatchIndicatorCode	
Value	**Description**
1	Matched manually to the nearest accessible Street.
2	Matched spatially to the nearest USRN. Not necessarily the access street.

StreetRecordTypeCode

This enumeration is used in association with the attribute *recordType* / *RECORD_TYPE* found in the Street table. This enumeration identifies the record type of the street record.

StreetRecordTypeCode	
Value	**Description**
1	Official designated Street Name
2	Street Description
3	Numbered Street
4	Unofficial Street Description
9	Description used for LLPG Access

StreetStateCode

This enumeration is used in association with the attribute *state* / *STATE* found in the street table. This enumeration identifies at which point the street record is within its lifecycle.

StreetStateCode	
Value	**Description**
1	Under construction
2	Open
4	Permanently closed (STREET_END_DATE must be entered)

StreetSurfaceCode

This enumeration is used in association with the attribute *streetSurface* / *STREET_SURFACE* found in the Street table. This enumeration identifies the surface finish of the street.

StreetSurfaceCode	
Value	**Description**
1	Metalled
2	UnMetalled
3	Mixed

FileTypeCode

This enumeration is used in association with the attribute *fileType* / *FILE_TYPE* found in the Header record. This enumeration allows the identification of either a change-only update (COU) supply or a full supply.

FileTypeCode	
Value	**Description**
F	Signifies the supply is a full supply
C	Signifies the supply is a COU file

StreetClassificationCode
This enumeration is used in association with the attribute *streetClassification* / *STREET_CLASSIFICATION* found in the Street table. The enumeration provides a value denoting the primary classification of the street record.

StreetClassificationCode	
Value	**Description**
4	Pedestrian way or footpath
6	Cycletrack or cycleway
8	All vehicles
9	Restricted byway
10	Bridleway

LogicalStatusCode
This enumeration is used in association with the attribute "logicalStatus" / "LOGICAL_STATUS" found in the BLPU and LPI table. This enumeration provides a value to show the lifecycle stage of the address record.

LogicalStatusCode	
Value	**Description**
1	Approved
3	Alternative
6	Provisional
8	Historical

Note: BLPU records will not have a logical status value of 3, whereas LPI records can have all of the values expressed above.

Date
There are many *Date* columns within the AddressBase product. Where a type format of *Date* has been used in the above attribute tables, the data will be defined in the following format.

Value	Type	Notes
2007-10-24	Date	Date columns will follow the structure: CCYY-MM-DD

Time

There are columns within the AddressBase product which provide a Time value. Where this is declared, the data will be provided in the following format.

Value	Type	Notes
14:11:15	Time	Time will follow the structure of HH:MM:SS based on a 24-hour clock.

3. Attribute naming differences between the formats

The naming of attributes between CSV, GML and GeoPackage will be different due to the requirements of the file formats. The attributes are listed together in Section 2.2 , but for convenience, the following tables map the CSV attribute name to the GML and GeoPackage attribute names.

3.1 Basic Land and Property Unit (BLPU)

CSV	GML	GeoPackage
RECORD_IDENTIFIER	Not required in GML	Not provided in GeoPackage
CHANGE_TYPE	changeType (Provided in FeatureWithLifecycle)	change_type
PRO_ORDER	Not required in GML	Not provided in GeoPackage
UPRN	uprn	uprn
LOGICAL_STATUS	logicalStatus	logical_status
BLPU_STATE	blpuState	blpu_state
BLPU_STATE_DATE	blpuStateDate	blpu_state_date
PARENT_UPRN	parentUPRN	parent_uprn
X_COORDINATE	position	x_coordinate
Y_COORDINATE	position	y_coordinate
LATITUDE	positionLatLong	latitude
LONGITUDE	positionLatLong	longitude
RPC	rpc	rpc
LOCAL_CUSTODIAN_CODE	localCustodianCode	local_custodian_code
COUNTRY	country	country
START_DATE	startDate (Provided in FeatureWithLifecycle)	start_date
END_DATE	endDate (Provided in FeatureWithLifecycle)	end_date
LAST_UPDATE_DATE	lastUpdateDate (Provided in FeatureWithLifecycle)	last_update_date
ENTRY_DATE	entryDate (Provided in FeatureWithLifecycle)	entry_date
ADDRESSBASE_POSTAL	addressbasePostal	addressbase_postal
POSTCODE_LOCATOR	postcodeLocator	postcode_locator
MULTI_OCC_COUNT	multiOccCount	multi_occ_count

3.2 Classification

CSV	GML	GeoPackage
RECORD_IDENTIFIER	Not required in GML	Not provided in GeoPackage
CHANGE_TYPE	Not required in GML	change_type
PRO_ORDER	Not required in GML	Not provided in GeoPackage
URPN	uprn (obtained from the feature)	uprn
CLASS_KEY	classKey	class_key
CLASSIFICATION_CODE	classificationCode	classification_code
CLASS_SCHEME	classScheme	class_scheme
SCHEME_VERSION	schemeVersion	scheme_version
START_DATE	START_DATE (Provided in EntityWithLifecycle)	start_date
END_DATE	Provided in EntityWithLifecycle	end_date
LAST_UPDATE_DATE	Provided in EntityWithLifecycle	last_update_date
ENTRY_DATE	Provided in EntityWithLifecycle	entry_date

3.3 Delivery Point Address

CSV	GML	GeoPackage
RECORD_IDENTIFIER	Not required in GML	Not provided in GeoPackage
CHANGE_TYPE	Not required in GML	change_type
PRO_ORDER	Not required in GML	Not provided in GeoPackage
UPRN	uprn (obtained from the feature)	uprn
UDPRN	udprn	udprn
ORGANISATION_NAME	organisationName	organisation_name
DEPARTMENT_NAME	departmentName	department_name
SUB_BUILDING_NAME	subBuildingName	sub_building_name
BUILDING_NAME	buildingName	building_name
BUILDING_NUMBER	buildingNumber	building_number
DEPENDENT_THOROUGHFARE	dependentThoroughfare	dependent_thoroughfare
THOROUGHFARE	thoroughfare	thoroughfare

CSV	GML	GeoPackage
DOUBLE_DEPENDENT_LOCALITY	doubleDependentLocality	double_dependent_locality
DEPENDENT_LOCALITY	dependentLocality	dependent_locality
POST_TOWN	postTown	post_town
POSTCODE	postcode	postcode
POSTCODE_TYPE	postcodeType	postcode_type
DELIVERY_POINT_SUFFIX	deliveryPointSuffix	delivery_point_suffix
WELSH_DEPENDENT_THOROUGHFARE	welshDependentThoroughfare	welsh_dependent_thoroughfare
WELSH_THOROUGHFARE	welshThoroughfare	welsh_thoroughfare
WELSH_DOUBLE_DEPENDENT_LOCALITY	welshDoubleDependentLocality	welsh_double_dependent_locality
WELSH_DEPENDENT_LOCALITY	welshDependentLocality	welsh_dependent_locality
WELSH_POST_TOWN	welshPostTown	welsh_post_town
PO_BOX_NUMBER	poBoxNumber	po_box_number
PROCESS_DATE	processDate	process_date
START_DATE	START_DATE (Provided in EntityWithLifecycle)	start_date
END_DATE	Provided in EntityWithLifecycle	end_date
LAST_UPDATE_DATE	Provided in EntityWithLifecycle	last_update_date
ENTRY_DATE	Provided in EntityWithLifecycle	entry_date

3.4 Land Property Identifier (LPI)

CSV	GML	GeoPackage
RECORD_IDENTIFIER	Not required in GML	Not provided in GeoPackage
CHANGE_TYPE	Not required in GML	change_type
PRO_ORDER	Not required in GML	Not provided in GeoPackage
UPRN	uprn (obtained from the feature)	uprn
LPI_KEY	lpiKey	lpi_key
LANGUAGE	Provided within an ‘xml:lang’ tag	language
LOGICAL_STATUS	logicalStatus	logical_status

CSV	GML	GeoPackage
START_DATE	START_DATE (Provided in EntityWithLifecycle)	start_date
END_DATE	Provided in EntityWithLifecycle	end_date
LAST_UPDATE_DATE	Provided in EntityWithLifecycle	last_update_date
ENTRY_DATE	Provided in EntityWithLifecycle	entry_date
SAO_START_NUMBER	saoStartNumber	sao_start_number
SAO_START_SUFFIX	saoStartSuffix	sao_start_suffix
SAO_END_NUMBER	saoEndNumber	sao_end_number
SAO_END_SUFFIX	saoEndSuffix	sao_end_suffix
SAO_TEXT	saoText	sao_text
PAO_START_NUMBER	paoStartNumber	pao_start_number
PAO_START_SUFFIX	paoStartSuffix	pao_start_suffix
PAO_END_NUMBER	paoEndNumber	pao_end_number
PAO_END_SUFFIX	paoEndSuffix	pao_end_suffix
PAO_TEXT	paoText	pao_text
USRN	usrn	usrn
USRN_MATCH_INDICATOR	usrnMatchIndicator	usrn_match_indicator
AREA_NAME	areaName	area_name
LEVEL	level	level
OFFICIAL_FLAG	officialFlag	official_flag

3.5 Organisation

CSV	GML	GeoPackage
RECORD_IDENTIFIER	Not required in GML	Not provided in GeoPackage
CHANGE_TYPE	Not required in GML	change_type
PRO_ORDER	Not required in GML	Not provided in GeoPackage
UPRN	uprn (obtained from the feature)	uprn
ORG_KEY	orgKey	org_key
ORGANISATION	organisation	organisation
LEGAL_NAME	legalName	legal_name

CSV	GML	GeoPackage
START_DATE	startDate (Provided in EntityWithLifecycle)	start_date
END_DATE	endDate (Provided in EntityWithLifecycle)	end_date
LAST_UPDATE_DATE	lastUpdateDate (Provided in EntityWithLifecycle)	last_update_date
ENTRY_DATE	entryDate (Provided in EntityWithLifecycle)	entry_date

3.6 Application Cross Reference

CSV	GML	GeoPackage
RECORD_IDENTIFIER	Not required in GML	Not provided in GeoPackage
CHANGE_TYPE	Not required in GML	change_type
PRO_ORDER	Not required in GML	Not provided in GeoPackage
UPRN	uprn (obtained from the feature)	uprn
XREF_KEY	xrefKey	xref_key
CROSS_REFERENCE	crossReference	cross_reference
VERSION	version	version
SOURCE	source	source
START_DATE	startDate (Provided in EntityWithLifecycle)	start_date
END_DATE	endDate (Provided in EntityWithLifecycle)	end_date
LAST_UPDATE_DATE	lastUpdateDate (Provided in EntityWithLifecycle)	last_update_date
ENTRY_DATE	entryDate (Provided in EntityWithLifecycle)	entry_date

3.7 Street

CSV	GML	GeoPackage
RECORD_IDENTIFIER	Not required in GML	Not provided in GeoPackage
CHANGE_TYPE	changeType (Provided in FeatureWithLifecycle)	change_type
PRO_ORDER	Not required in GML	Not provided in GeoPackage
USRN	usrn	usrn
RECORD_TYPE	recordType	record_type
SWA_ORG_REF_NAMING	swaOrgRefNaming	swa_org_ref_naming
STATE	state	state
STATE_DATE	stateDate	state_date
STREET_SURFACE	streetSurface	street_surface
STREET_CLASSIFICATION	streetClassification	street_classification
VERSION	version	version
STREET_START_DATE	startDate (Provided in FeatureWithLifecycle)	street_start_date
STREET_END_DATE	endDate (Provided in FeatureWithLifecycle)	street_end_date
LAST_UPDATE_DATE	lastUpdateDate (Provided in FeatureWithLifecycle)	last_update_date
RECORD_ENTRY_DATE	entryDate (Provided in FeatureWithLifecycle)	record_entry_date
STREET_START_X	streetStart	street_start_x
STREET_START_Y	streetStart	street_start_y
STREET_START_LAT	streetStartLatLong	street_start_lat
STREET_START_LONG	streetStartLatLong	street_start_long
STREET_END_X	streetEnd	street_end_x
STREET_END_Y	streetEnd	street_end_y
STREET_END_LAT	steetEndLatLong	street_end_lat
STREET_END_LONG	steetEndLatLong	street_end_long
STREET_TOLERANCE	streetTolerance	street_tolerance

3.8 Street Description

CSV	GML	GeoPackage
RECORD_IDENTIFIER	Not required in GML	Not provided in GeoPackage
CHANGE_TYPE	Not required in GML	change_type
PRO_ORDER	Not required in GML	Not provided in GeoPackage
USRN	usrn (obtained from the feature)	usrn
STREET_DESCRIPTION	streetDescription	street_description
LOCALITY	locality	locality
TOWN_NAME	townName	town_name
ADMINSTRATIVE_AREA	administrativeArea	administrative_area
LANGUAGE	Provided within an ‘xml:lang’ tag	language
START_DATE	startDate (Provided in EntityWithLifecycle)	start_date
END_DATE	endDate (Provided in EntityWithLifecycle)	end_date
LAST_UPDATE_DATE	lastUpdateDate (Provided in EntityWithLifecycle)	last_update_date
ENTRY_DATE	entryDate (Provided in EntityWithLifecycle)	entry_date

3.9 Successor

CSV	GML	GeoPackage
RECORD_IDENTIFIER	Not required in GML	Not provided in GeoPackage
CHANGE_TYPE	Not required in GML	change_type
PRO_ORDER	Not required in GML	Not provided in GeoPackage
UPRN	uprn	uprn
SUCC_KEY	succKey	succ_key
START_DATE	startDate (Provided in EntityWithLifecycle)	start_date
END_DATE	endDate (Provided in EntityWithLifecycle)	end_date
LAST_UPDATE_DATE	lastUpdateDate (Provided in EntityWithLifecycle)	last_update_date
ENTRY_DATE	entryDate (Provided in EntityWithLifecycle)	entry_date
SUCCESSOR	successor	successor

3.10 Entity with Life Cycle

CSV	GML	GeoPackage
Provided within the datatypes	startDate	Provided within the datatypes
Provided within the datatypes	endDate	Provided within the datatypes
Provided within the datatypes	lastUpdateDate	Provided within the datatypes
Provided within the datatypes	entryDate	Provided within the datatypes

3.11 Feature with Life Cycle

CSV	GML	GeoPackage
Provided within the feature type	changeType	Provided within the feature type
Provided within the feature type	startDate	Provided within the feature type
Provided within the feature type	endDate	Provided within the feature type
Provided within the feature type	lastUpdateDate	Provided within the feature type
Provided within the feature type	entryDate	Provided within the feature type

4. COU supplies

As detailed in Section 1, AddressBase Premium is available as a full supply, or change-only update (COU) supply for CSV and GML formats. COU supplies are not available for GeoPackage format.

A COU supply of data contains records or files that have changed between product refresh cycles. The primary benefit in supplying data in this way is that data volumes are smaller, reducing the amount of data that requires processing when compared to a full supply.

COU data enables a user to identify three types of change:

1. Deletes (CHANGE_TYPE 'D') are objects that have ceased to exist in your areas of interest (AOI) since the last product refresh.

2. Inserts (CHANGE_TYPE 'I') are objects that have been newly inserted into your AOI since the last product refresh.

3. Updates (CHANGE_TYPE 'U') are objects that have been updated in your AOI since the last product refresh.

4.1 Non-geographic chunked COU

A COU file for non-geographic chunked data can be identified by its naming convention as highlighted in Section 1. Any change record will be provided as a full record with the appropriate change type, as listed above.

4.2 Geographic chunked COU (tile-based)

A geographic chunked COU is not supplied as per the non-geographic chunked COU outlined above. Its file naming convention can be found in Section 1 . If a single record has changed within a specified 5km tile, the entire 5km tile containing all features will be supplied. This means the user will need to remove all features that previously existed in the provided tile(s) and insert the entire new tile(s) in its place.

4.3 Archiving

When users are deleting, inserting or updating features, it is up to the user to consider their archiving requirements. If deleted records are important to your business requirements, you must take appropriate action to archive previous records.

5. Example record

The following section provides example records for both the CSV and GML supplies. Please note the data given is to provide an example only and is not to be used as accurate data.

5.1 CSV supply

Header example
10,"GeoPlace",9999,2011-07-08,1,2011-07-08,16:00:30,"2.0","F"

Street example
11,"I",1456,5801201,1,6815,2,1990-01-01,1,8,0,2004-09-09,,2007-08-14,2004-09-09,316433.00,176987.00,51.545587,-3.5441274,316278.00,1777294.00,51.1124512,-3.2254874,20

Street Descriptor example
15,"I",8332,5801201,"LLANDAFF ROAD","PONTCANNA","CARDIFF","CARDIFF","ENG",2005-09-09,,2006-11-12,2005-09-09

Basic Land and Property Unit (BLPU) example
21,"I",181859,100100077917,1,,,,316348.00,177163.00,50.7268511,-3.5366289,1,6815,"E",2001-05-10,,2007-08-29,2001-05-10,"D","CF11 9PX",0

Application Cross Reference example
23,"I",461696,100100077917,"6815X800076448","2147881 92",0,"7666VC",2001-05-10,,2007-08-29,2001-05-10

Land Property Identifier (LPI) example
24,"I",1082431,100100077917,"6815L000701604","ENG",1,2001-05-10,,2001-05-15,2001-05-10,,"",,"","",166,"",,"","",5801201,"1","","","",""

Delivery Point Address example
28,"I",1451545,100100077917,4201646,"","","","","",166,"","LLANDAFF ROAD","","","CARDIFF","CF11 9PX","S","2F","","LLANDAFF ROAD","","","CAERDYDD","",2011-07-19,2001-05-10,,2007-08-29,2001-05-10

Metadata example
29,"AddressBase Premium","BLPUs, Delivery Points, Streets and associated Information","England, Wales and Scotland"," ADDRESS LAYER 2, NLPG, PAF, VOA Council Tax and Non Domestic Rates, CODEPOINT polygons", "GeoPlace","S","GeoPlace",10033528687,9999,"British National Grid","Metres",2011-09-09,"AddressBase Premium Classification Scheme",2011-09-09,"BIL"," UTF-8"

Successor example
30,"I",12345,100100077917,"9078S000000001",2006-10-10,2007-11-15,2007-11-15,2006-10-10,122000001

Organisation example
31,"I",13581,100100077917,"6815O000015664","EXAMPLE ORGANISATION NAME","",2003-07-28,,2010-07-10,2003-07-28

Classification example
32,"I",181860,100100077917,"6815C000076448","R","AddressBase Premium Classification Scheme",1.0,2001-05-10,,2007-08-29,2001-05-10

Trailer example
99,0,1269403,2011-07-08,16:00:30

5.2 GML supply

BasicLandPropertyUnitMember example

<abpr:basicLandPropertyUnitMember>
<abpr:BasicLandPropertyUnit gml:id="uk.geoplace.uprn.100100077917">
<abpr:changeType>I</abpr:changeType>
<abpr:startDate>2001-05-10</abpr:startDate>
<abpr:entryDate>2001-05-10</abpr:entryDate>
<abpr:lastUpdateDate>2007-08-29</abpr:lastUpdateDate>
<abpr:uprn>100100077917</abpr:uprn>
<abpr:logicalStatus>1</abpr:logicalStatus>
<abpr:position>
<gml:Point srsName="urn:ogc:def:crs:EPSG::27700"
gml:id="uk.geoplace.uprn.p.100100077917">
<gml:pos>316348.00 177163.00</gml:pos>
</gml:Point>
</abpr:position>
<abpr:positionLatLong>
<gml:Point srsName="urn:ogc:def:crs:EPSG::4258"
gml:id="uk.geoplace.uprn.pl.100100077917">
<gml:pos>50.7268511 -3.5366289</gml:pos>
</gml:Point>
</abpr:positionLatLong>
<abpr:rpc>1</abpr:rpc>
<abpr:localCustodianCode>6815</abpr:localCustodianCode>
<abpr:country>E</abpr:country>
<abpr:addressbasePostal>D</abpr:addressbasePostal>
<abpr:postcodeLocator>CF11 9PX</abpr:postcodeLocator>
<abpr:multiOccCount>0</abpr:multiOccCount>
<abpr:landPropertyIdentifierMember>
<abpr:LandPropertyIdentifier>
<abpr:startDate>2001-05-10</abpr:startDate>
<abpr:entryDate>2001-05-10</abpr:entryDate>
<abpr:lastUpdateDate>2001-05-15</abpr:lastUpdateDate>
<abpr:lpiKey>6815L000701604</abpr:lpiKey>
<abpr:logicalStatus>1</abpr:logicalStatus>
<abpr:paoStartNumber>166</abpr:paoStartNumber>
<abpr:usrn>5801201</abpr:usrn>
<abpr:usrnMatchIndicator>1</abpr:usrnMatchIndicator>
</abpr:LandPropertyIdentifier>
</abpr:landPropertyIdentifierMember>
<abpr:classificationMember>
<abpr:Classification>
<abpr:startDate>2001-05-10</abpr:startDate>
<abpr:entryDate>2001-05-10</abpr:entryDate>
<abpr:lastUpdateDate>2007-08-29</abpr:lastUpdateDate>
<abpr:classKey>6815C000076448</abpr:classKey>
<abpr:classificationCode>R</abpr:classificationCode>
<abpr:classScheme>AddressBase Premium Classification Scheme</abpr:classScheme>
<abpr:schemeVersion>1.0</abpr:schemeVersion>
</abpr:Classification>
</abpr:classificationMember>

<abpr:deliveryPointAddressMember>
<abpr:DeliveryPointAddress>
<abpr:startDate>2001-05-10</abpr:startDate>
<abpr:entryDate>2001-05-10</abpr:entryDate>
<abpr:lastUpdateDate>2007-08-29</abpr:lastUpdateDate>
<abpr:udprn>4201646</abpr:udprn>
<abpr:buildingNumber>166</abpr:buildingNumber>
<abpr:thoroughfare xml:lang="en">LLANDAFF ROAD</abpr:thoroughfare>
<abpr:postTown xml:lang="en">CARDIFF</abpr:postTown>
<abpr:postcode>CF11 9PX</abpr:postcode>
<abpr:postcodeType>S</abpr:postcodeType>
<abpr:deliveryPointSuffix>2F</abpr:deliveryPointSuffix>
<abpr:welshThoroughfare xml:lang="en">LLANDAFF
ROAD</abpr:welshThoroughfare>
<abpr:welshPostTown xml:lang="en">CAERDYDD</abpr:welshPostTown>
<abpr:processDate>2011-07-19</abpr:processDate>
</abpr:DeliveryPointAddress>
</abpr:deliveryPointAddressMember>
<abpr:organisationMember>
<abpr:Organisation>
<abpr:startDate>2003-07-28</abpr:startDate>
<abpr:entryDate>2003-07-28</abpr:entryDate>
<abpr:lastUpdateDate>2010-07-10</abpr:lastUpdateDate>
<abpr:organisation>EXAMPLE ORGANISATION NAME</abpr:organisation>
<abpr:orgKey>6815O000015664</abpr:orgKey>
</abpr:Organisation>
</abpr:organisationMember>
<abpr:applicationCrossReferenceMember>
<abpr:ApplicationCrossReference>
<abpr:startDate>2001-05-10</abpr:startDate>
<abpr:entryDate>2001-05-10</abpr:entryDate>
<abpr:lastUpdateDate>2007-08-29</abpr:lastUpdateDate>
<abpr:xRefKey>6815X600076448</abpr:xRefKey>
<abpr:version>5</abpr:version>
<abpr:crossReference>osgb4000000021638865</abpr:crossReference>
<abpr:source>7666MI</abpr:source>
</abpr:ApplicationCrossReference>
</abpr:applicationCrossReferenceMember>
<abpr:applicationCrossReferenceMember>
<abpr:ApplicationCrossReference>
<abpr:startDate>2001-05-10</abpr:startDate>
<abpr:entryDate>2001-05-10</abpr:entryDate>
<abpr:lastUpdateDate>2007-08-29</abpr:lastUpdateDate>
<abpr:xRefKey>6815X700076448</abpr:xRefKey>
<abpr:version>3</abpr:version>
<abpr:crossReference>osgb10000027126870</abpr:crossReference>
<abpr:source>7666MT</abpr:source>
</abpr:ApplicationCrossReference>
</abpr:applicationCrossReferenceMember>
<abpr:applicationCrossReferenceMember>
<abpr:ApplicationCrossReference>
<abpr:startDate>2001-05-10</abpr:startDate>
<abpr:entryDate>2001-05-10</abpr:entryDate>

<abpr:lastUpdateDate>2007-08-29</abpr:lastUpdateDate>
<abpr:xRefKey>6815X800076448</abpr:xRefKey>
<abpr:version>1</abpr:version>
<abpr:crossReference>21478192</abpr:crossReference>
<abpr:source>7666VC</abpr:source>
</abpr:ApplicationCrossReference>
</abpr:applicationCrossReferenceMember>
<abpr:applicationCrossReferenceMember>
<abpr:ApplicationCrossReference>
<abpr:startDate>2001-05-10</abpr:startDate>
<abpr:entryDate>2001-05-10</abpr:entryDate>
<abpr:lastUpdateDate>2007-08-29</abpr:lastUpdateDate>
<abpr:xRefKey>6815X900076448</abpr:xRefKey>
<abpr:version>12</abpr:version>
<abpr:crossReference>osgb100000228301O753</abpr:crossReference>
<abpr:source>7666MA</abpr:source>
</abpr:ApplicationCrossReference>
</abpr:applicationCrossReferenceMember>
</abpr:BasicLandPropertyUnit>
</abpr:basicLandPropertyUnitMember>

StreetMember example

<abpr:streetMember>
<abpr:Street gml:id="uk.geoplace.usrn.5801201">
<abpr:changeType>I</abpr:changeType>
<abpr:startDate>2004-09-09</abpr:startDate>
<abpr:entryDate>2004-09-09</abpr:entryDate>
<abpr:lastUpdateDate>2007-08-14</abpr:lastUpdateDate>
<abpr:usrn>5801201</abpr:usrn>
<abpr:recordType>1</abpr:recordType>
<abpr:swaOrgRefNaming>6815</abpr:swaOrgRefNaming>
<abpr:state>2</abpr:state>
<abpr:stateDate>1990-01-01</abpr:stateDate>
<abpr:streetSurface>1</abpr:streetSurface>
<abpr:streetClassification>8</abpr:streetClassification>
<abpr:version>0</abpr:version>
<abpr:streetStart>
<gml:Point srsName="urn:ogc:def:crs:EPSG::27700"
gml:id="uk.geoplace.usrn.start.5801201">
<gml:pos>316433.00 176987.00</gml:pos>
</gml:Point>
</abpr:streetStart>
<abpr:streetStartLatLong>
<gml:Point srsName="urn:ogc:def:crs:EPSG::4258"
gml:id="uk.geoplace.usrn.start.l.5801201">
<gml:pos>51.545587 -3.5441274</gml:pos>
</gml:Point>
</abpr:streetStartLatLong>
<abpr:streetEnd>
<gml:Point srsName="urn:ogc:def:crs:EPSG::27700"
gml:id="uk.geoplace.usrn.end.5801201">

<gml:pos>316278.00 177294.00</gml:pos>
</gml:Point>
</abpr:streetEnd>
<abpr:streetEndLatLong>
<gml:Point srsName="urn:ogc:def:crs:EPSG::4258"
gml:id="uk.geoplace.usrn.end.l.5801201">
<gml:pos>52.1124512 -3.2254874</gml:pos>
</gml:Point>
</abpr:streetEndLatLong>
<abpr:streetTolerance>20</abpr:streetTolerance>
<abpr:streetDescriptiveIdentifierMember>
<abpr:StreetDescriptiveIdentifier>
<abpr:streetDescription xml:lang="en">LLANDAFF ROAD</abpr:streetDescription>
<abpr:localityName xml:lang="en">PONTCANNA</abpr:localityName>
<abpr:townName xml:lang="en">CARDIFF</abpr:townName>
<abpr:administrativeArea xml:lang="en">CARDIFF</abpr:administrativeArea>
</abpr:StreetDescriptiveIdentifier>
</abpr:streetDescriptiveIdentifierMember>
<abpr:streetDescriptiveIdentifierMember>
<abpr:StreetDescriptiveIdentifier>
<abpr:streetDescription xml:lang="cy">LLANDAFF ROAD</abpr:streetDescription>
<abpr:localityName xml:lang="cy">PONTCANNA</abpr:localityName>
<abpr:townName xml:lang="cy">CAERDYDD</abpr:townName>
<abpr:administrativeArea xml:lang="cy">CAERDYDD</abpr:administrativeArea>
</abpr:StreetDescriptiveIdentifier>
</abpr:streetDescriptiveIdentifierMember>
</abpr:Street>
</abpr:streetMember>

Ordnance Survey Limited
Explorer House, Adanac Drive, Nursling, Southampton SO16 0AS
+44 (0)3456 050505 (General enquiries) +44 (0)2380 056146 (Textphone)
customerservices@os.uk www.os.uk