
Data Guide

Address Layer 2

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Introduction

Address Layer 2 Data Information

This guide provides an overview of the Address Layer 2 dataset.

GBA Address Layer 2 Dataset

Dataset Code:	GBA
Filenames:	gba.dts, gba.tpx, gba.zlx, gba.kfx
Approximate Data Size:	1.2GB
Data Source:	Ordnance Survey MasterMap
Update Frequency:	Quarterly
Expiry:	<p>The quarterly data release dates are:</p> <ul style="list-style-type: none">• March;• June;• September;• December. <p>Data files will expire 8 months after creation. For example, March data will expire in November of the same year.</p> <p>Ensure every data update is applied promptly, otherwise the data may expire and the product will become unusable.</p>

About This Data

This chapter provides detailed information about the Address Layer 2 dataset.

Area Covered

The dataset contains information for all three Ordnance Survey MasterMap Address Layer 2 themes (Address, OWPA and MOWPA) in the following areas:

Dataset	England	Scotland	Wales	N. Ireland	Isle of Man	Channel Islands
GBA Address Layer 2	✓	✓	✓	✗	✗	✗

Address Elements

The following address elements are stored within the GBA data files.

Address Element	Example	Element Code
Department	Sales	O21
Organisation	QAS	O11
VO DR Firm Name ⁺	QAS LTD	O12

Address Element	Example	Element Code
PO Box	PO Box 12	B11
PO Box (Name)	PO Box	B111
PO Box (Number)	12	B112
Sub Building Name	Flat 1	P21
Building Name	Experian Towers	P12
Building Number	1G	P11
OWPA PAON	KIERHILL POND IN PARK 311M FROM ADDISTOUN 217M FROM A71	P13
Feature Name	KIERHILL POND	P131
Feature Reference	IN PARK 311M FROM ADDISTOUN 217M FROM A71	P132
OS Street	Cobble Street	S11
Thoroughfare	Gorse View	S12
Welsh Thoroughfare	Stryd portland	S13
Dependent Thoroughfare	TIRYDAIL	S21
Welsh Dependent Thoroughfare	GLAN YR AFON	S22
Double Dependent Locality	Pentregwenlais	L41
Welsh Double Dependent Locality	Pentregwenlais	L42
OS Locality	Kingswinford South	L31
Dependent Locality	Llandybie	L32
Welsh Dependent Locality	Llandybie	L33
OS Town	BIRMINGHAM	L21
Post Town	Ammanford	L22

Address Element	Example	Element Code
Welsh Post Town	Rhydaman	L23
OS Admin Area	Dudley District (B)	L11
County	GLOUCESTER	L12
Postcode	DY6 9RA	C11
Out code	DY6	C111
In code	9RA	C112
Country ⁺	United Kingdom	X11
Two character ISO country code ⁺	GB	X12
Three character ISO country code ⁺	GBR	X13
TOID ⁺	OSGB1000002247552988	A11

⁺*Elements that only appear in the address if their position is fixed.*

Address Element Definitions

For more information about Ordnance Survey address elements and attributes, visit the Ordnance Survey website at:

<http://www.ordnancesurvey.co.uk/>

Forms Of Address

There are three Forms of address stored in the Address Layer 2 data files:

- **OS BS 7666**, which will return final addresses in the OS Geographic Address format.
- **English RM PAF**, which will return final addresses in the Royal Mail address format. Where Royal Mail address elements are unavailable, they will be replaced with OS BS 7666 elements.
- **Welsh RM PAF**, which is a Welsh language alternative to the English RM PAF Form. Where Welsh address elements are unavailable, the English will be used.

About DataPlus Information

You can configure your QAS products to use any of the available DataPlus sets that are available for Address Layer 2 data. Please refer to the relevant section of the product documentation for information on configuring QAS products to return DataPlus information.

Each DataPlus set (.dap) is divided into one or more items. QAS products can be configured to return these items via the Configuration Editor (using the element name) or the configuration file (using the code name). This section details the DataPlus sets currently available for Address Layer 2 Data.

DataPlus Sets for Address Layer 2 Data

The following DataPlus sets are available with Address Layer 2 Data:

- GBA Address Layer 2 - Identity;
- GBA Address Layer 2 - Reference;
- GBA Address Layer 2 - Lifecycle;
- GBA Address Layer 2 - Co-ordinates;
- GBA Address Layer 2 - Metadata;
- GBA Address Layer 2 - Type.

GBA Identity

Identifier: GBAOSI

GBAOSI contains Ordnance Survey primary identifiers. For more information about these elements, including the themes for which they are likely to be populated, visit the Ordnance Survey website at:

<http://www.ordnancesurvey.co.uk/>

Element	Code	Description
OS DPS	DPS	Delivery Point Suffix
OS APR	OSAPR	Ordnance Survey ADDRESS-POINT Reference, a unique 18-character alphanumeric string.
OS RM UDPRN	RMUDPRN	Royal Mail's 8-digit Unique Delivery Point Reference Number
OS RM UMRN	RUMUMRRN	Royal Mail's 8-digit Unique Multi-residence Reference Number
RM Address Key	RMAddressKey	Royal Mail's 8-digit unique address identifier
RM Organisation Key	RMOrganisationKey	Royal Mail's 8-digit unique organisation identifier
VA CT UARN	VOCTUARN	Valuation Office Agency's 11-digit Unique Address Reference Number, used to identify premises attracting council tax.
NO NDR UARN	VONDRUARN	Valuation Office Agency's 11-digit Unique Address Reference Number used to identify premises attracting non-domestic rates.

GBA Reference

Identifier: GBAOSR

GBAOSR contains Ordnance Survey reference identifiers. For more information about these elements, including the themes for which they are likely to be populated, visit the Ordnance Survey website at:

<http://www.ordnancesurvey.co.uk/>

Element	Code	Description
OS Ref to Address TOID	RefToAddressTOID	The TOID of the nearest neighbouring Address theme AddressPoint feature in the OWPA theme and the parent Address theme AddressPoint feature in the MOWPA theme.
OS Ref to OSAPR	RefToOSAPR	The OSAPR of the parent Address theme AddressPoint feature in the MOWPA theme.
OS Ref to Topo TOID	RefTopoTOID	The identifier of the point or area feature in the OS MasterMap Topography Layer the AddressPoint feature is related to, usually a building.
OS Ref to Carto TOID	RefCartoTOID	The identifier of the Cartographic Text feature in the OS MasterMap Topography Layer associated with the point or area feature the AddressPoint feature is related to.
OS Ref to ITN Road Link TOID	RefRoadLinkTOID	The identifier of the nearest road link feature to the AddressPoint feature in OS MasterMap ITN Layer, usually the one it is accessible from.
OS Ref to ITN Road TOID	RefRoadTOID	The identifier of the road of which the road link (RefRoadLinkTOID) forms a part, which provides the road name for the AddressPoint feature.

Element	Code	Description
RM Ref to UDPRN	RefUDPRN	The UDPRN of the parent Address theme AddressPoint feature in the MOWPA theme.
RM Ref to Address Key	RefAddKey	The Address Key of the parent Address theme AddressPoint feature in the MOWPA theme.
RM Ref to Organisation Key	RefOrgKey	The Organisation Key of the parent Address theme AddressPoint feature in the MOWPA theme.

GBA Lifecycle

Identifier: GBAOSL

GBAOSL contains Ordnance Survey lifecycle metadata. For more information about these elements, including the themes for which they are likely to be populated, visit the Ordnance Survey website at:

<http://www.ordnancesurvey.co.uk/>

Element	Code	Description
OS Address Version	OSAddressVersion	The version number of the feature.
OS Topo Version	TopoVersion	The version number of the feature.
OS Carto Version	CartoVersion	The version number of the feature.
OS ITN Road Link Version	RoadLinkVersion	The version number of the feature.
OS ITN Road Version	RoadVersion	The version number of the feature.
OS Address Version Date	OSAddressVersionDate	The date on which this version of the feature became the current version. This is the date on which the feature was changed in the database, and is not the date of any associated real-world change.
OS Reason For Change 1	ReasonForChange1	The reason for the most recent change made to a feature (part of the OS Address Change History attribute).
OS Change Date 1	ChangeDate1	The date of the most recent change made to a feature (part of the OS Address Change History attribute).

Element	Code	Description
OS Reason For Change 2	ReasonForChange2	The reason for the second most recent change made to a feature (part of the OS Address Change History attribute).
OS Change Date 2	ChangeDate2	The date of the second most recent change made to a feature (part of the OS Address Change History attribute).
RM Address Version Date	RMAddressVersionDate	The date the creation of, or update to, a delivery point was supplied to Ordnance Survey in a Royal Mail PAF update.

GBA Co-ordinates

Identifier: GBAOSC

GBAOSC contains co-ordinates for addresses in the dataset. For more information about these elements, including the themes for which they are likely to be populated, visit the Ordnance Survey website at:

<http://www.ordnancesurvey.co.uk/>

Element	Code	Description
OS Easting	OSEasting	Easting co-ordinate in metres, defining a horizontal location in the British National Grid.
OS Northing	OSNorthing	Northing co-ordinate in metres, defining a vertical location in the British National Grid.

GBA Meta-data

Identifier: GBAOSM

GBAOSM contains Ordnance Survey metadata. For more information about these elements, including the themes for which they are likely to be populated, visit the Ordnance Survey website at:

<http://www.ordnancesurvey.co.uk/>

Element	Code	Description
OS Match Status	OSMatchStatus	Indicates the quality of the match between Ordnance Survey data and Royal Mail PAF addresses.
OS Physical Status	OSPhysicalStatus	Indicates the existence of the building or structure that this address is associated with.
OS Position Accuracy	OSPositionAccuracy	Indicates the method by which the provided coordinate position (see page 11) was established.
OS Position Status	OSPositionStatus	Indicates whether an address location is in its final or provisional position.
OS Structure Type	OSStructureType	A simple structural classification of the topographic feature referred to by this AddressPoint feature, indicating whether the topographic feature is a permanent building, other structure or of unknown construction.
OS Spatial Referencing System	OSSpatialRefSys	The co-ordinate referencing system used by Ordnance Survey, namely British National Grid (BNG).
OS Theme	OSTheme	The theme to which the feature belongs.
OS PO Box Flag	OSPoboxFlag	Indicates whether the delivery point refers to a PO Box (returns "True"), which is located at the relevant Sorting Office, or not (returns "False").

Element	Code	Description
Multi-Occ Count	MultiOcCount	Indicates the number of premises served by a single delivery point. This is only populated for multiple-occupancy addresses, i.e. where the number of premises is greater than one.
LA Code	LACode	The 3 or 4 digit code that DCLG have for each local authority, following the convention of the NSG/NLPG DTF 6.3 specification.
Postcode Type	RMPostcodeType	Indicates whether a postcode applies to a single delivery point (returns "Small") or a large number of delivery points (returns "Large").

GBA Type

Identifier: GBAOST

GBAOST contains Ordnance Survey classification data. For more information about these elements, including the themes for which they are likely to be populated, visit the Ordnance Survey website at:

<http://www.ordnancesurvey.co.uk/>

Element	Code	Description
OS Base Function	OSBaseFunction	Ordnance Survey classification, for example, "WAREHOUSE".
NLUD Land use Group	NLUDLandUseGroup	National Land Use Group code, for example, "U071".
VO NDR PDesc Code	VONDRPDescCode	Valuation Office Agency Non-domestic Rates Primary Description code, for example, "IF2".
VO NDR SCat Code	VONDRSCatCode	Valuation Office Agency Non-domestic Rates Special Category code, for example, "016".
OS Classification Confidence	OSClassificationConfidence	An indicator of the confidence of the Ordnance Survey processing in having correctly identified and located the feature.

Using This Data

This section provides tips for address searching when using QAS Pro Web.



The search examples are accurate at the time of documentation. However, search results may differ depending on the data release you are using.

With QAS Pro Web

Scenarios

The following table indicates the relevant search examples for each QAS Pro Web scenario and search engine that supports GBA Address Layer 2 data.

Scenario	Search Engine	For search examples, see:
Web: Address Capture	Single Line flattened	Single Line search examples on page 17.
Web: Key Search	Keyfinder	Key Searching examples on page 18.
Intranet: Standard	Typedown	Typedown examples on page 16.
	Single Line hierarchical	Single Line search examples on page 17.
Intranet: Single Line	Single Line hierarchical	Single Line search examples on page 17.

Address Verification and Bulk Processing scenarios do not support the GBA dataset.

Search Examples: Typedown

The following table provides a list of these example search types:

- Full address known;
- OWPA known;
- Welsh language address known.

Search type	Example
Full address known	<ol style="list-style-type: none">1) Enter the location, newport, and press Enter.2) Enter the first part of the street name, grif, and press Enter. In this example this is enough to uniquely identify Griffin Street.3) Enter the premises number, 187, and press Enter.4) The full address, including the organisation at the premises, is returned.
OWPA known	<ol style="list-style-type: none">1) Enter the location, framlingham, and press Enter.2) Enter the street name, church street, and press Enter.3) Enter the feature, pond, and press Enter.4) The full address of the OWPA is returned.
Welsh language address known	<ol style="list-style-type: none">1) Enter the location, abergwaun, and press Enter.2) Enter the street name, y gongol, and press Enter.3) Enter the premises number, 77, and press Enter.4) The full address is returned, according to the layout selected.

Search Examples: Single Line

The following table provides a list of these example search types:

- Full OWPA known;
- Full MOWPA known;
- Exact OWPA location unknown.

Search type	Explanation
Full OWPA known	Enter the feature name, street name and locality: pavilion,weirs drove,burwell The full address is returned.
Full MOWPA known	Enter the sub premises name, premises number and postcode: second floor flat,145, sw8 1xn The full address is returned.
Exact OWPA location unknown	Enter the feature name followed by the available location information to display a picklist of possible matches. Enter telephone,shap to see a list of every public telephone in Shap.

Search Examples: Key Searching

The following table provides a list of these example search types:

- Searching on a TOID.

Search type	Explanation
Searching on a TOID	Enter the TOID, OSGB1000002247552988 , and press Enter . The full address is returned: 161 Ridge Road Kingswinford South BIRMINGHAM Dudley District (B) DY6 9RA