AddressBase Products May 2023 Epoch 101

Release Note version 1.0

GB coverage

Version	Change
1.0	Initial release.

Introduction

This release note provides information about the May 2023 release of the AddressBase products. These products were released to customers on **12 May 2023**.

Record counts

Product	Full Supply record count[1]	Change-Only Update record count[2]
OS Open UPRN	40 386 030	N/A
AddressBase	30 220 809	999 005
AddressBase Plus	37 719 630	5 459 550
AddressBase Premium	See rows below	See rows below
Street	1 492 788	113 939
Street Descriptor	1 614 636	62 317
BLPU	40 386 030	1 545 895
Classification	44 282 287	1 478 662
LPI	45 397 872	1 680 740
Organisation	1 401 028	68 990
Delivery Point Address	30 325 589	922 693
Application Cross Ref.	196 114 292	10 818 868
Successor	0	0

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[1] These counts are based on a Managed Great Britain Set (MGBS). If you have ordered your national coverage via the online ordering system using a polygon outline, then your counts may differ.

[2] Change-Only Updates are not available for the OS Open UPRN product.

Product supply comparison

There is a difference in product counts between taking a national Managed Great Britain Set (MGBS) and a national Area of Interest (AOI). This is because the two supplies use different selection criteria. The differences are shown in the following table, allowing for you to validate your data holdings once you have loaded the latest release of AddressBase data.

The national AOI refers to the pre-selection GB polygon from our download store. Therefore, if you have drawn your own AOI, the count will vary.

If you are unsure of your supply type, please check this with your OS Relationship Manager.

Product	MGBS Full Count	National AOI Full Count	Difference
AddressBase	30 220 809	30 220 809	0
AddressBase Plus	37 719 612	37 719 630	18
AddressBase Premium	See rows below	See rows below	See rows below
Street	1 492 787	1 492 788	1
Street Descriptor	1 614 635	1 614 636	1
BLPU	40 386 008	40 386 030	22
Classification	44 282 265	44 282 287	22
LPI	45 397 849	45 397 872	23
Organisation	1 401 026	1 401 028	2
Delivery Point Address	30 325 589	30 325 589	0
Application Cross Ref.	196 114 270	196 114 292	22
Successor	0	0	0

Changed records

If you receive a Change-Only Update (COU) supply for your AddressBase product, you will receive Insert, Update and Delete records within the supplied file. The following tables detail the numbers of these records which can be expected in an **MGBS supply**, and also how many tiles are affected if you take your supply as Changed Chunks.

AddressBase

Change type	Count
Inserts	39 907
Updates	947 716
Deletes	11 382
COU Populated Tile Count	5 780

AddressBase Plus

Change type	Count
Inserts	47 142
Updates	5 397 012
Deletes	15 396
COU Populated Tile Count	8 604

AddressBase Premium

AddressBase Premium table	Inserts	Updates	Deletes
Street	1 403	112 272	264
Street Descriptor	1 500	60 547	270
BLPU	46 258	1 494 673	4 964
Classification	62 335	1 398 199	18 128
LPI	61 557	1 612 867	6,316
Organisation	6 456	57 419	5 115
Delivery Point Address	39 557	872 731	10 405
Application Cross Ref.	212 673	10 567 043	39 152

It is important that COUs are processed with Deletes first, then Inserts and Updates; this is to ensure that updates are applied in the correct order. Guidance on this can be found in Section 8 of the Getting Started Guide for AddressBase, AddressBase Plus and AddressBase Plus Islands, which is available on the 'AddressBase Product Support page' of the OS website (https://www.ordnancesurvey.co.uk/business-government/tools-support/addressbase-support).

Source data currency

The following information relates to the currency of the source data used in the creation of Epoch 101:

Data source	Date
Royal Mail PAF	06 April 2023
National Land and Property Gazetteer	06 April 2023
One Scotland Gazetteer	20 March 2023
VOA Non-Domestic Rates	04 April 2023
VOA Council Tax	04 April 2023
OS MasterMap Topography Layer	28 March 2023
OS MasterMap Highways Network	23 March 2023
Code-Point with Polygons	04 April 2023
Boundary-Line	05 October 2022

Data issues

AddressBase issues

Affected output formats: CSV and GML

No non-conformities identified.

AddressBase Plus issues

Affected output formats: CSV and GML

- There are 5 704 Unique Property Reference Numbers (UPRNs) which reference a Parent UPRN which cannot be found in the product. This is because the Parent UPRN is either provisional or historic and is not matched to the Royal Mail Postcode Address File (PAF) or Valuation Office Agency (VOA) record, meaning that it is not included in the AddressBase Plus product as per the existing background logic rules.

- There are 201 records with a sao_start_no or sao_text that have no Parent UPRN in the product. This is because the Parent UPRN is a historical record which is included as part of the logic for record inclusion in the AddressBase Plus product.

Improvements in Epoch 101

Level field improvements

Following user engagement, the representation of the Level attribute will be changed from textual to numeric. This will enable users to query the level field data more easily and complete more sophisticated analysis. This improvement work will be present in product from Epoch 98 onwards.

The current specification for the Level field is a character string and will remain so to enable numeric ranges to be represented. Numbered ranges will be a comma-separated list of values within the range, for example, for levels 1 to 4, the values will be represented as 1,2,3,4. Negative values will be used to represent levels below the ground, for example, BASEMENT = -1. Ground level will be represented by the number 0. Non-integer values are permitted only where the decimal value is '.5' – these are permitted to allow for a representation of mezzanine levels. Any other decimal value should result in the attribute value being set to NULL.

Valuation Office Agency matching

The match rates for Council Tax and Non-Domestic Rates for Epoch 101 are detailed as follows based on Valuation Office Agency (VOA) records up to 04 April. The match rate is applicable to the AddressBase Premium product.
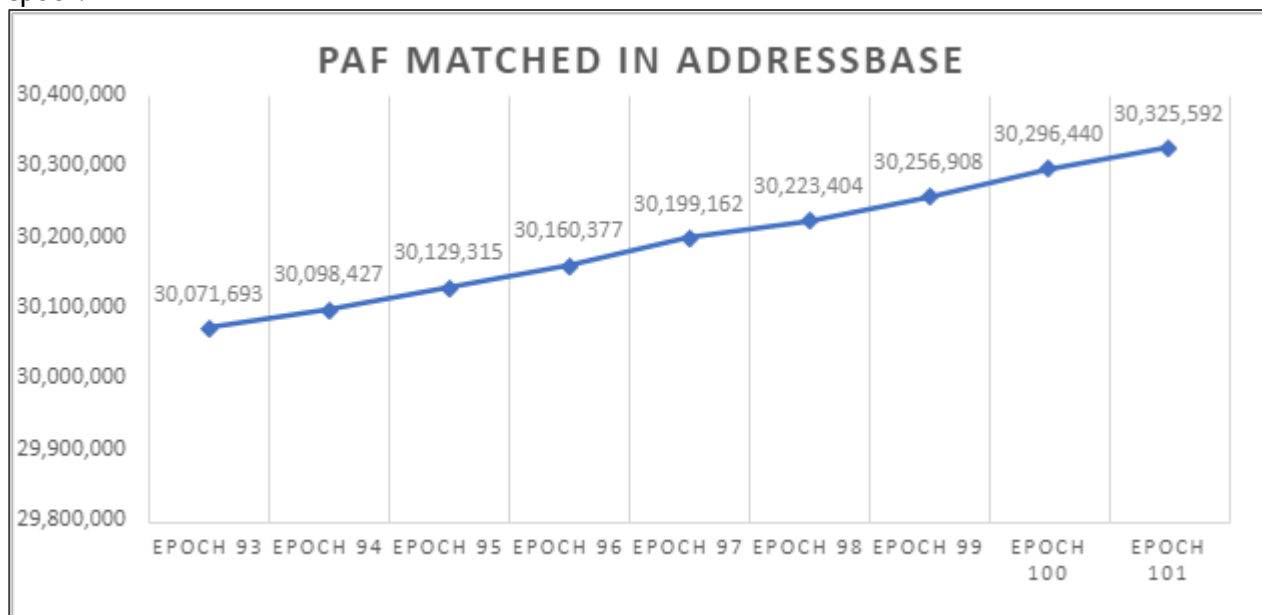
Data source	Records received	% Matched
Council Tax	26 812 648	99.94
Non-Domestic Rates	2 058 291	96.17

Tertiary classifications

Work is being undertaken to improve the classifications of records within the AddressBase products. This work has resulted in 49 537 more tertiary classifications present in Epoch 101 compared to Epoch 100. Indeed, 88.86% of these tertiary classification improvements are against residential codes.

PAF matching

The following graph shows the number of Postcode Address File (PAF) matched records in AddressBase by epoch:

New tertiary and quaternary classification codes

We have introduced new tertiary and quaternary classification codes to the AddressBase classification scheme. The new tertiary classification for pharmacies and a number of additional quaternary classifications provide a more granular view for pubs, supermarkets, convenience stores and electric vehicle charging points. This makes these classes easier to filter in AddressBase.

We have also introduced additional classifications for bridges within AddressBase to represent the type of feature the bridge spans over. This helps to facilitate effective decision making for customers who use bridge features.

Primary code	Secondary code	Tertiary code	Tertiary description	Quaternary code	Quaternary description
C	M	06	Pharmacy	–	–
C	R	06	–	BA	Bar
C	R	06	–	PH	Public House
C	R	06	–	NC	Nightclub
C	R	08	–	SM	Supermarket
C	R	08	–	CS	Convenience Store
C	R	09	–	BS	Betting Shop
C	R	09	–	OL	Off-licence
C	R	02	–	EV	Electric Car Charging Station
C	T	11	–	CA	Road Bridge Over Canal
C	T	11	–	MU	Road Bridge Over Multiple
C	T	11	–	NN	Road Bridge Over No Network
C	T	11	–	PA	Road Bridge Over Path
C	T	11	–	RA	Road Bridge Over Railway
C	T	11	–	RO	Road Bridge Over Road
C	T	11	–	WA	Road Bridge Over Water

This change to the classification schema was implemented in Epoch 100, which was published on 30 March 2023. From this date, these new tertiary and quaternary classification codes have been included in AddressBase products.

Local authority changes

In our addressing products, we provide information detailing which local authority an address is within. From 01 April 2023, several local authorities reorganised to form new authorities. This means that the local authority code for all addresses within the affected authorities changed from the old authority to the new one, resulting in approximately 1.3 million records being updated. These changes will be seen in product from Epoch 101 onwards. The table below maps the changes:

Existing authority code	New authority code
Allerdale – 905	Cumberland – 940
Carlisle – 915	Cumberland – 940
Copeland – 920	Cumberland – 940
Barrow-in-Furness – 910	Westmorland and Furness – 935
Eden – 925	Westmorland and Furness – 935
South Lakeland – 930	Westmorland and Furness – 935
Scarborough – 2730	North Yorkshire – 2745
Ryedale – 2725	North Yorkshire – 2745
Selby – 2735	North Yorkshire – 2745
Hambleton – 2710	North Yorkshire – 2745
Richmondshire – 2720	North Yorkshire – 2745
Harrogate – 2715	North Yorkshire – 2745
Craven – 2705	North Yorkshire – 2745
Mendip – 3305	Somerset – 3300
Sedgemoor – 3310	Somerset – 3300
Somerset West and Taunton – 3330	Somerset – 3300
South Somerset – 3325	Somerset – 3300

Impact of upcoming improvements on COU file sizes

Due to the changes being made to AddressBase records as a result of the improvements (such as those being made to the population of the level field; tertiary and quaternary classification uplifts; Boundary-Line and OS MasterMap Highways changes; as well as the local authority changes from April 2023), you will see larger than usual COU files in Epoch 99 and the subsequent epochs.

The predicted volume of change per epoch is as follows:

- Epoch 99: Approximately 3 500 000.

- Epoch 100: Approximately 5 200 000.

- Epoch 101: Approximately 6 500 000.

- Epoch 102: Approximately 4 000 000.

Next release

The next release of AddressBase, Epoch 102, is scheduled for **Thursday 15 June 2023**.