
Metering Point Address Data

Standardised Address Format

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1 INTRODUCTION

This document sets out a recommendation for the standard address structure for electricity metering point addresses (service point addresses as held within the Metering Point Administration Services databases managed by the 14 PES distribution businesses). This standard could also apply to information held for other purposes, such as mailing and contact addresses, but was defined with particular consideration of the importance of metering point addresses.

The standard was developed by GB Information Management, commissioned by Ofgem, at the request of the Address Data Working Group.

The need for a standard address structure has been identified to address two main objectives:

1. To enable electricity suppliers to match customer-provided address details accurately and consistently to addresses held by the distribution businesses.
2. To facilitate a general improvement in the accuracy of addresses held by the distribution businesses and permit ongoing maintenance processes to be accommodated effectively.

Key benefits derived from this include

1. Maximising the opportunity for suppliers to automate customer-provided address matching with published MPAS data.
2. Reducing the overhead on distribution businesses needing to respond to address-related queries.
3. Obtaining a reduction in erroneous transfers caused by inaccurate or incomplete address data.
4. Reducing the instances of customers being excluded from changing supplier due to poor address details being available.

This document reviews existing addressing standards, namely BS7666 Part 3 (PAF) and BS7666 Part 2 (NLPG) and discusses the appropriateness of each to the common identification and maintenance of supply addresses within the UK. Chapter 4 assesses the current address structures in use and a recommendation on the way forward is set out in chapter 5. Chapter 6 sets out an Address Format Standard and provides examples of how addresses should be formatted to comply with this standard.

2 BS7666 PART 3 (PAF)

This standard covers the definition of addresses as held within PAF (the Royal Mail's Postcode Address File). PAF is a unique reference to mailing points within the UK, being used to identify the location of mailboxes. The address itself is very much a delivery instruction to enable mail to be transported between, and delivered through, a number of sortation offices. However, the Royal Mail's own statistics show that PAF is used more extensively for non-mailing purposes.

Clearly, the location of a mailbox can differ from the location of a meter supply point within a premise or site. Whilst in many cases (90% plus?) they will be one and the same, there will be a number of instances, such as multi-occupancy premises and multi-building sites, where the full location details of a supply point will not be present on PAF. The reality is that PAF is the only currently available, usable reference data set.

The elements of a PAF address are shown in the table below.

| PAF Element | Description and Comments |
|----------------------------|--|
| Department | Refers to a sub-division of an organisation. |
| Organisation | Populated if the business or organisation is known. |
| Sub-Building Name / Number | Refers to the sub-building of the premise. This field is alpha-numeric and can contain a name or a number. |
| Building Name | Separate fields are defined on PAF for building name and number, one being alpha-numeric, the other numeric. Both building name and number fields can be present for a single address. |
| Building Number | |
| PO Box | Allocated box number used to potentially identify "like types" of mail, e.g. bill payments. Tends to obscure physical address. |
| Dependent Thoroughfare | Occasionally used. |
| Thoroughfare (Street) | Frequently, but not always present in an address. |
| Double Dependent Locality | Occasionally used. |
| Dependent Locality | Frequently used. |
| Locality (Post Town) | Always present. |
| County | Postal county, as distinct from electoral county. The Royal Mail does not maintain this field and plans to remove it altogether from December 2000. |
| Postcode | Always present, consisting of a 2,3, or 4 character outcode and 3 character incode. |
| DPS | Together with the Postcode provides a unique reference to an address, at a point in time. Used with Postcode to produce barcode for automated sorting of mail. |

In addition to the standard address elements the Royal Mail provide a number of related data items as follows:

- Easting and Northing This is a postcode level grid reference obtained from an associated file (Postzon).
- Address Key Concatenation of three fields, these being the Address Identifier, Organisation Identifier, and Large User Indicator. Taken together they form a unique key to an address that, generally speaking, is static. In a very small number of cases the Royal Mail can change the Address Key, particularly when the use of a building changes. In almost all incidences of this the Key change can be identified.
- Local Authority Code This code identifies the Electoral County, Local Authority or Unitary Authority, and is obtained from the Postzon file.

In order to attempt to gain a fuller understanding of the data held within PAF, the following appendices are provided:

- Appendix A. Breakdown of population of address elements across Postcode areas.
- Appendix B. Examples of areas which have been recently re-coded by the Royal Mail.
- Appendix C. Examples of Scottish Tenement Addresses
- Appendix D. Examples of how the Royal Mail uses address elements, and the variances and inconsistencies that exist.

3 BS7666 PART 2 (NLPG)

The National Land and Property Gazetteer (NLPG) will provide the first comprehensive address base of commercial and residential buildings in Great Britain since Norman times.

The standard does not differentiate between commercial or residential properties; between occupied, developed or vacant land; between urban or rural; or between addressable properties and non-addressable entities such as communication masts.

The NLPG will consist of a number of tables. There will be two main property record types, the Basic Land and Property Unit (BLPU), and the Land and Property Identifier (LPI). Each record type will contain a Unique Property Reference Number, effective start and end dates, an entry date, and various status checks. For each BLPU there will be one or more corresponding LPI's.

The addressable elements specific to the Basic Land and Property Unit Record Type are as follows.

| Addressable Element | Description and Comments |
|------------------------------|--|
| X Co-ordinate | The Eastings co-ordinate of the BLPU. |
| Y Co-ordinate | The Northings co-ordinate of the BPLU. |
| Relative Positional Accuracy | A code that indicates the representation of the X and Y Co-ordinates. Current values are Visual Centre of BLPU, General Internal Point, SW Corner of 100m grid square, Start Point of Referenced Street. |

The addressable elements held within the Land and Property Identifier Record Type are as follows.

| Addressable Element | Description and Comments |
|-----------------------------------|--|
| Secondary Addressable Object Name | Optional. |
| Primary Addressable Object Name | Mandatory. |
| Street Name | Mandatory. Held as a Unique Street Reference Number that has been matched to the National Street Gazetteer |
| Level | Optional. Memorandum of the vertical position of the address, e.g. Roof Garden |
| Post Town | Optional |
| Postcode | Optional |

In addition to these elements a number of other data fields will be present, as defined in the standard. Additional data fields such as building type (eg church, statue, public convenience, inn, etc) may also become available.

A version of the NLPG should be available early in 2001, covering around 30% of the population. Early indications suggest that the NLPG will contain between 15% and 20% more building addresses than PAF, largely due to the presence of more commercial premises and sub-premise level data.

4 CURRENT STRUCTURE OF METERING POINT ADDRESS DATA

The overall structure of the address data managed by each of the 14 electricity distribution businesses and MPAS service providers (published from data held within their respective MPAS databases), comprises 9 address lines each of 40 characters (bytes) in length plus a postcode line. However there is a significant variation in the structure of the address data held by each company.

Table 1 below provides real example addresses from each of the published CD ROMs, and clearly indicates the high degree of inconsistency in address formats across the 14 companies.

The lack of consistency places additional burdens on the systems and operations of suppliers and agents. The lack of a standard address structure also makes it difficult for distribution businesses to improve and maintain their address accuracy. Standard automated address enhancement software is not built around variable 9-line address structures.

GB Information Management has undertaken a review of the current addresses within each distribution business. This was carried out using the Royal Mail's address data auditing software, which measures compliance of addresses with BS7666 Part 3 (PAF). The results are presented in Table 2 below.

The auditing software checks that the essential elements of an address are present and in the correct hierarchical sequence. These address elements are used to identify a unique match against the latest version of PAF.

Data sets that have a comparatively low conformance overall typically appear to have high failure rates at either locality or building level. Failure at locality level (including post town, dependent locality and double dependent locality) could be caused by issues such as key elements missing or misspelt, or superfluous elements between thoroughfare and post town. Those most affected by failures at building level (including sub-building details) are in areas where there are known problems and deficiencies, even with PAF (e.g. London, Glasgow etc.). Generally, failures at postcode and thoroughfare levels are comparatively small.

The level of conformance of addresses are shown to vary widely across the industry, from under 40% to over 80% of a published dataset.

Metering Point Address Data

Table 1 Example PES Address Structure

| Line 1 | Line 2 | Line 3 | Line 4 | Line 5 | Line 6 | Line 7 | Line 8 | Line 9 | Postcode |
|-------------------|------------------|-------------------|---------------|------------------|----------------|----------------|------------|-------------------------------------|----------|
| | 16 | | | WINDRUSH AVENUE | | | BEDFORD | BEDFORDSHIRE | MK41 7BS |
| | | 21 | | WOODVILLE ROAD | | | BOSTON | LINCOLNSHIRE | PE21 8AP |
| FLAT A | | 29 | | WARWICK SQUARE | | | LONDON | | SW1V 2AD |
| | THE HAYLOFT REAR | ABERGELE RD | | | COLWYN BAY | CLWYD | | | LL29 7RU |
| 36 SEBRIGHT CLOSE | PERSHORE WORCS | | | | | | | | WR10 1QF |
| | HOUSE FLAT B | MAIN STREET | | HALTWHISTLE | NORTHUMBERLAND | | | MR SLOAN FLATS ABOVE MAGS NEWSAGENT | NE49 0BL |
| | | 2 | WASNIDGE WALK | | MANCHESTER | LANCASHIRE | | | M15 6EG |
| | LR | 59 | MENZIES ROAD | | ABERDEEN | | | | AB11 9AS |
| 39 | | CRANDLEYHILL ROAD | | | PRESTWICK | | | | KA9 2BE |
| | | 17 | CHERWELL ROAD | HEATHFIELD | | SUSSEX | | | TN21 8JT |
| FL12 | WILLOW COURT | | | CORNEY REACH WAY | | CHISWICK | LONDON | | W4 2TW |
| | | 50 | | BRYNGLAS | | PENYRHEOL | CAERPHILLY | MID GLAMORGAN | CF83 2PH |
| | FFF | 3 | | BEAUFORT HOUSE | | MARINERS COURT | PLYMOUTH | DEVON | PL4 0BS |
| | | 11 | | Gorse Close | | | Scunthorpe | South Humberside | DN16 3BG |

Metering Point Address Data

Table 2 – Address Conformance to BS7666 Part 3 (PAF) by Distribution Business (June 2000 extract)

| Region | Conform Correctly to BS7666 | % | Address Failed at Postcode | % | Address Failed at Locality | % | Address Failed at Thoro. | % | Address Failed at Building | % | Foreign Address | % | Total |
|----------------|-----------------------------|-------|----------------------------|------|----------------------------|-------|--------------------------|------|----------------------------|-------|-----------------|------|------------|
| TXU (EASTERN) | 2,857,219 | 83.7% | 200,984 | 5.9% | 19,613 | 0.6% | 27,388 | 0.8% | 306,605 | 9.0% | - | 0.0% | 3,411,809 |
| LONDON ELEC | 1,383,068 | 59.5% | 136,884 | 5.9% | 38,053 | 1.6% | 66,471 | 2.9% | 701,682 | 30.2% | - | 0.0% | 2,326,158 |
| MANWEB | 714,880 | 49.3% | 61,045 | 4.2% | 408,912 | 28.2% | 91,304 | 6.3% | 174,848 | 12.1% | - | 0.0% | 1,450,989 |
| NORTHERN ELEC | 1,096,923 | 70.9% | 17,136 | 1.1% | 201,917 | 13.1% | 51,755 | 3.3% | 179,065 | 11.6% | - | 0.0% | 1,546,796 |
| NORWEB | 1,904,963 | 82.5% | 51,475 | 2.2% | 75,022 | 3.2% | 48,318 | 2.1% | 229,273 | 9.9% | - | 0.0% | 2,309,051 |
| SCOTTISH POWER | 1,284,457 | 61.1% | 128,620 | 6.1% | 105,089 | 5.0% | 62,341 | 3.0% | 521,297 | 24.8% | - | 0.0% | 2,101,804 |
| SEEBOARD | 820,792 | 38.2% | 22,184 | 1.0% | 992,977 | 46.2% | 68,273 | 3.2% | 246,780 | 11.5% | - | 0.0% | 2,151,006 |
| SOUTHERN | 2,222,913 | 78.4% | 89,977 | 3.2% | 25,936 | 0.9% | 30,379 | 1.1% | 465,730 | 16.4% | 1 | 0.0% | 2,834,936 |
| SWALEC | 756,791 | 71.5% | 33,398 | 3.2% | 74,323 | 7.0% | 81,073 | 7.7% | 112,456 | 10.6% | - | 0.0% | 1,058,041 |
| SWEB | 667,452 | 44.9% | 70,033 | 4.7% | 552,425 | 37.2% | 65,825 | 4.4% | 130,457 | 8.8% | - | 0.0% | 1,486,192 |
| YORKSHIRE | 1,779,012 | 82.4% | 146,546 | 6.8% | 20,254 | 0.9% | 23,841 | 1.1% | 189,429 | 8.8% | - | 0.0% | 2,159,082 |
| EAST MIDLANDS | 1,873,964 | 75.6% | 62,816 | 2.5% | 226,949 | 9.2% | 102,547 | 4.1% | 213,260 | 8.6% | 2 | 0.0% | 2,479,538 |
| HYDRO ELECTRIC | 556,660 | 66.2% | 56,953 | 6.8% | 44,796 | 5.3% | 17,438 | 2.1% | 164,855 | 19.6% | - | 0.0% | 840,702 |
| MIDLANDS | 1,397,280 | 58.0% | 190,733 | 7.9% | 425,699 | 17.7% | 174,347 | 7.2% | 220,952 | 9.2% | - | 0.0% | 2,409,011 |
| TOTALS | 19,316,374 | 67.6% | 1,268,784 | 4.4% | 3,211,965 | 11.2% | 911,300 | 3.2% | 3,856,689 | 13.5% | 3 | 0.0% | 28,565,115 |

Notes to Table 2

1. The measurement of address conformance to BS7666 Part 3 (PAF) was carried out using Address Checker Plus and the Y00M05 version of PAF, issued by the Royal Mail at the end of May 2000. The metering point addresses used were obtained from the CDs published during July 2000.
2. Addresses conforming correctly to BS7666. All of the address elements required to uniquely define the address are present and in the correct sequence, and match the corresponding entry in PAF.
3. Addresses failing at postcode. The postcode is missing or cannot be found on PAF.
4. Addresses failing at locality. The postcode present matches PAF, but either the locality (Post Town), dependent locality, or double dependent locality is missing or cannot be found on PAF for the corresponding postcode. Address Checker Plus will accept any address that contains additional information between the thoroughfare and the locality element(s) valid and present on PAF.

Example 1: 1 Alfreton Close, Wimbledon, LONDON, SW19 5NS, would be accepted even though Wimbledon is not present on PAF.

Example 2: 73 Stoke Lane, Stoke Bishop, BRISTOL, BS9 3SN, would not be accepted as Stoke Bishop is a valid locality on PAF, but not the correct locality for BS9 3SN. Equally, 73 Stoke Lane, BRISTOL, BS9 3SN, would fail at locality. The correct address is 73 Stoke Lane, Westbury-on-Trym, BRISTOL, BS9 3SN.

5. Addresses failing at thoroughfare. Postcode and locality details match PAF, but the thoroughfare is missing or cannot be found on PAF for the corresponding postcode and locality details. Common abbreviations such as ST., RD., AVE., etc. are accepted.
6. Addresses failing at building. Postcode, locality and thoroughfare details match PAF, but the building name or number, or sub-building name or number is missing or cannot be found on PAF for the corresponding postcode, locality and thoroughfare details. Additional information is allowed prior to the required sub-building or building details. Thus if Flat 1 is present in the address but there are no sub-building details on PAF, the address will be accepted. It should be pointed out that Address Checker Plus also looks for PO Box and Organisation at this point, which will cause the statistics in Table 2 to be on the high side.

5 RECOMMENDATIONS FOR STANDARDISED ADDRESS FORMAT

With PAF being recognised as the de facto standard, at least in the short to medium term, the relevant PAF data elements need to be mapped onto the 9-line address plus postcode structure that is accommodated by the Data Transfer Catalogue (DTC).

The PAF elements that would appear not to be applicable in this instance are

- Department
- Organisation
- PO Box

This leaves the following fields within PAF to be considered.

| PAF Element | Description and Comments |
|----------------------------|--|
| Sub-Building Name / Number | One field is defined on PAF for sub-building name and number, and it is recommended that this field is maintained in the structure. |
| Building Name / Number | Separate fields are defined on PAF for building name or number, one being alpha-numeric, the other numeric. It is recommended that these fields are combined to a single "Building" field. |
| Dependent Thoroughfare | Occasionally used. |
| Thoroughfare (Street) | Frequently, but not always present in an address. |
| Double Dependent Locality | Occasionally used. |
| Dependent Locality | Frequently used. |
| Locality (Post Town) | Always present. |
| County | Postal county, as distinct from electoral county. The Royal Mail does not maintain this field and plans to remove it altogether from December 2000. |
| Postcode | Always present, consisting of a 2, 3, or 4 character outcode and 3 character incode. |

These 8 fields and postcode could be held within the existing 9-line plus postcode DTC address structure.

There is a move within the Royal Mail to reduce the number of address lines to a maximum of 5, plus a postcode. The vast majority of addresses conform to this. However, if the MPAS address holds supplementary data to that held on PAF, this data should be retained at this stage.

Addresses can fall into three categories:

PAF Addresses:

These are those that exactly match an entry on PAF, and for which the MPAS holds no supplementary details. An Address Key can be generated for these addresses.

PAF Addresses + non-PAF elements: These addresses match an entry on PAF and an Address Key can be attached to the record. However, the MPAS holds extra information about the address such as sub-premise details (flats etc.) or extra locality information not present on PAF (such as London boroughs).

Non-PAF Addresses: These are records that cannot be 100% matched against a PAF record. The level of cleanliness may vary for these addresses. For example, if the premise cannot be uniquely identified on PAF, yet the thoroughfare and locality detail is accurate, it may be possible to generate a full postcode for the address, yet not produce an Address Key. At the other end of the scale, are addresses such as “The telephone box, Junction of A55/A483, Chester”

In conclusion, the following address structure is recommended.

| Line Number | Description |
|-------------|----------------------------|
| 1 | Free text |
| 2 | Sub-building Name / Number |
| 3 | Building Name / Number |
| 4 | Dependent Thoroughfare |
| 5 | Thoroughfare |
| 6 | Double Dependent Locality |
| 7 | Dependent Locality |
| 8 | Locality (Post Town) |
| 9 | County |

In addition to these address lines, the Postcode would be separately recorded, as now, in the relevant data item.

A number of guidelines or rules will need to be defined to determine how addresses should in practice be held. Some recommendations on these are as follows.

1. For PAF addresses, the MPAS address should be populated exactly as held on PAF with the equivalent elements matching.
2. Where non-PAF elements occur within a PAF address, these elements should be populated into appropriate fields within the natural hierarchy of the address. Thus, sub-premise details present on the MPAS database, but not PAF, should appear in the Sub-Building Name / Number line. Additional locality data not appearing on PAF, should appear between the Thoroughfare and Post Town lines.
3. Building name / number. Where an address contains both a building name and building number, these values should be concatenated into the single field with building name first, a comma separator, and then the building number. For example, for “Flat 11, George House, 21 High Street” the value in the Building Name / Number field should be “George House, 21”.

4. Organisation names. Although the report suggests that defining a separate field for an organisation is not applicable there may be instances where the presence of an organisation name can assist the cleaning or matching processes. This needs to be balanced against the view that organisation (ie customer) should not be published. The organisation name on PAF is freely obtainable and is not necessarily going to indicate the customer / business trading name. For instance, the "Prince of Wales" pub in BS9 will appear in PAF as an organisation, but is not the trading name of the business. In these cases we would suggest that the organisation could be held within the free text line. If the "Prince of Wales" appears on PAF as the building name, then it should be held within the recommended address structure in the building name field.
5. Where an address is clearly not on PAF, such as "The telephone box, junction of A55/A485, Chester", the address should be populated from Line 1 down with Chester being allocated to the Post Town line where possible.
6. The Postcode should be populated with partial details even if the full postcode cannot be derived.

It is also recommended that, in addition to the postcode, a number of other, additional fields should be considered for inclusion in database and data flows associated with metering point addresses. Details of these are as follows.

| Field | Source |
|----------------------|----------------------------|
| Address Key | PAF |
| Local Authority Code | PAF / Postzon (Royal Mail) |
| UPRN | NLPG |
| Level | NLPG |
| Easting | NLPG |
| Northing | NLPG |

The population of these would be optional, but where present, would significantly aid the address identification process.

6 ADDRESS FORMAT STANDARD

Metering point addresses should be structured within the following ten data items, according to the rules set out below.

| Line | Current Data Item | Description | PAF field |
|------|-------------------------------|----------------------------|-----------|
| 1 | Metering Point Address Line 1 | Free text | No |
| 2 | Metering Point Address Line 2 | Sub-building Name / Number | Yes |
| 3 | Metering Point Address Line 3 | Building Name / Number | Yes |
| 4 | Metering Point Address Line 4 | Dependent Thoroughfare | Yes |
| 5 | Metering Point Address Line 5 | Thoroughfare | Yes |
| 6 | Metering Point Address Line 6 | Double Dependent Locality | Yes |
| 7 | Metering Point Address Line 7 | Dependent Locality | Yes |
| 8 | Metering Point Address Line 8 | Locality (Post Town) | Yes |
| 9 | Metering Point Address Line 9 | County | No |
| 10 | Metering Point Postcode | Postcode | Yes |

The MPAS address will be one of the following three categories:

PAF Addresses:

The MPAS address exactly match an entry on PAF, and for which the MPAS holds no supplementary details. An Address Key can be generated for these addresses.

The MPAS address should be populated exactly as held on PAF with the equivalent elements matching.

PAF Addresses + non-PAF elements:

The MPA address matches an individual entry on PAF and an Address Key can be attached to the record. However, the MPAS holds extra information about the address such as sub-premise details (flat numbers etc.) or extra locality information not present on PAF (such as London boroughs).

The non-PAF elements should be populated into appropriate fields within the natural hierarchy of the address. Thus, sub-premise details present on the MPAS database, but not PAF, should appear in the Sub-Building Name / Number line. Additional locality data (e.g. London Boroughs) not appearing on PAF, should appear between the Thoroughfare and Locality lines.

Non-PAF Addresses:

The MPAS address cannot be matched to an individual PAF record. If the premise cannot be uniquely identified on PAF, yet the thoroughfare and locality detail is accurate, it may be possible to generate a full postcode for the address, but not produce an Address Key. Addresses such as "The telephone box, Junction of A55/A483, Chester" are also covered by this category.

Non-PAF addresses should be populated from Line 1 down, with PAF elements such as Locality being allocated to the relevant line wherever possible.

The following rules provide additional guidance on how different types of address elements should be formatted.

7. Building name / number. Where an address contains both a building name and building number, these values should be concatenated into the single field with building name first, a comma separator, and then the building number. For example, for “Flat 11, George House, 21 High Street” the value in the Building Name / Number field should be “George House, 21”.
8. Organisation names. There may be instances where the presence of an organisation name will assist the cleaning or matching processes. If the organisation name appears on PAF (e.g. the “Prince of Wales” public house as the building name), then it should be held within the recommended address structure in the corresponding field. In all other cases the organisation should be held within the free text line.
9. The Postcode should be populated with partial details even if the full postcode cannot be derived.

The table on the following pages provides examples of how various addresses should be formatted to comply with these rules.

Metering Point Address Data

Sample formatted addresses:

| Example Address | Line | Formatted Address |
|---|------|-------------------------|
| PAF address 35, Galloway Road Liverpool L22 4QX | 1 | |
| | 2 | |
| | 3 | 35 |
| | 4 | |
| | 5 | Galloway Road |
| | 6 | |
| | 7 | |
| | 8 | Liverpool |
| | 9 | |
| | 10 | L22 4QX |
| PAF address + non-PAF elements Flat 11 George House 21, High Street Rowley Regis West Midlands B65 5GT | 1 | |
| | 2 | Flat 11 |
| | 3 | George House, 21 |
| | 4 | |
| | 5 | High Street |
| | 6 | |
| | 7 | |
| | 8 | Rowley Regis |
| | 9 | West Midlands |
| | 10 | B65 5GT |
| Non-PAF address The telephone box Junction of A55/A483 Chester | 1 | The telephone box |
| | 2 | Junction of A55/A483 |
| | 3 | |
| | 4 | |
| | 5 | |
| | 6 | |
| | 7 | |
| | 8 | Chester |
| | 9 | |
| | 10 | |
| PAF address The Prince of Wales PH Windsor Lane Little Kingshill Great Missendon Buckinghamshire HP16 0DZ | 1 | |
| | 2 | |
| | 3 | The Prince of Wales P H |
| | 4 | |
| | 5 | Windsor Lane |
| | 6 | |
| | 7 | Little Kingshill |
| | 8 | Great Missendon |
| | 9 | Buckinghamshire |
| | 10 | HP16 0DZ |

Metering Point Address Data

| Example Address | Line | Formatted Address |
|--|------|---------------------|
| PAF address with Organisation The Prince of Wales 28 Bethel Street Brighouse West Yorkshire HD6 1KN | 1 | The Prince of Wales |
| | 2 | |
| | 3 | 28 |
| | 4 | |
| | 5 | Bethel Street |
| | 6 | |
| | 7 | |
| | 8 | Brighouse |
| | 9 | West Yorkshire |
| | 10 | HD6 1KN |

APPENDICES

- A PAF Elements Breakdown**
- B Recent PAF Re-codings**
- C Examples of Scottish Tenement Addresses**
- D Examples of PAF Addresses**
- E Improvement of Address Accuracy and Ongoing Maintenance**

Appendix A PAF Elements Breakdown

The table below shows the total number of PAF addresses within each postal area (“Blue-Book”), broken down by PAF element. For example, within the AB (Aberdeen) Blue-Book area, 612 addresses contain a double dependent locality field, and 44,032 contain a building name element. It should be noted that the figures for dependent thoroughfare are included in the thoroughfare field (i.e. all addresses which have a dependent thoroughfare will also have a (main) thoroughfare. Similarly, the dependent locality figures include the double dependent locality ones and the town figures include the dependent localities.

| Post-code Area | Dept | Org | PO Box | Sub-building name | Building name | Building number | Dep Thfare | Thfare | Double Dep Locality | Dep Locality | Town | County | Small User Org | Large User Org | Domestic Building | Multi Occupancy Building |
|----------------|------|-------|--------|-------------------|---------------|-----------------|------------|--------|---------------------|--------------|--------|--------|----------------|----------------|-------------------|--------------------------|
| AB | 316 | 13038 | 466 | 17539 | 44032 | 166890 | 2742 | 183706 | 612 | 78926 | 212926 | 101922 | 12064 | 974 | 199888 | 3692 |
| AL | 80 | 5960 | 721 | 7330 | 13220 | 85763 | 3316 | 98690 | 0 | 20562 | 99765 | 99765 | 4828 | 1162 | 93775 | 17 |
| B | 722 | 39015 | 3306 | 72562 | 96662 | 696000 | 13518 | 779231 | 8356 | 184170 | 783877 | 336367 | 33480 | 5704 | 744693 | 1828 |
| BA | 156 | 12343 | 744 | 9798 | 38929 | 137946 | 1677 | 168588 | 815 | 61963 | 181655 | 118565 | 11354 | 1373 | 168928 | 1449 |
| BB | 223 | 12608 | 559 | 4491 | 19052 | 194995 | 1527 | 216994 | 42 | 64329 | 218392 | 159634 | 11377 | 1247 | 205768 | 160 |
| BD | 149 | 13719 | 773 | 11546 | 24870 | 201094 | 2532 | 225896 | 122 | 79788 | 229809 | 229809 | 12269 | 1518 | 216022 | 159 |
| BH | 183 | 13258 | 1108 | 39451 | 59312 | 205303 | 3183 | 243069 | 390 | 39660 | 247483 | 165971 | 11486 | 1945 | 234052 | 262 |
| BL | 78 | 8907 | 484 | 3165 | 10568 | 153223 | 1734 | 164327 | 698 | 63399 | 165165 | 44439 | 7983 | 967 | 156215 | 126 |
| BN | 207 | 19361 | 1948 | 41316 | 80951 | 275064 | 11765 | 347696 | 212 | 83517 | 353301 | 266164 | 16782 | 3027 | 333492 | 4660 |
| BR | 34 | 6256 | 744 | 15751 | 23987 | 111331 | 1664 | 129302 | 0 | 2231 | 130046 | 87477 | 5399 | 1050 | 123597 | 87 |
| BS | 524 | 22721 | 1821 | 30386 | 61480 | 317279 | 5780 | 379541 | 1455 | 164503 | 384219 | 58308 | 20393 | 3189 | 360637 | 5064 |
| BT | 474 | 39988 | 1397 | 15456 | 63519 | 649476 | 9161 | 704438 | 9303 | 233818 | 714064 | 464950 | 36936 | 3258 | 673870 | 604 |
| CA | 138 | 11239 | 254 | 3842 | 35758 | 104553 | 1672 | 119316 | 2622 | 56156 | 146452 | 100050 | 10619 | 623 | 135210 | 273 |
| CB | 185 | 9853 | 856 | 4809 | 23803 | 135441 | 3108 | 158350 | 18 | 80447 | 160869 | 63201 | 8246 | 1618 | 151005 | 296 |
| CF | 485 | 19666 | 1259 | 14602 | 44814 | 367382 | 4008 | 408912 | 2580 | 172913 | 417992 | 279437 | 17702 | 2620 | 397670 | 217 |
| CH | 247 | 15269 | 929 | 11407 | 38360 | 254469 | 8518 | 292789 | 451 | 107758 | 295744 | 201280 | 13955 | 1626 | 280163 | 1142 |
| CM | 202 | 14808 | 1430 | 10591 | 47941 | 218500 | 7965 | 264586 | 68 | 94226 | 269238 | 198615 | 12511 | 2306 | 254421 | 52 |

Metering Point Address Data

| Post-code Area | Dept | Org | PO Box | Sub-building name | Building name | Building number | Dep Thfare | Thfare | Double Dep Locality | Dep Locality | Town | County | Small User Org | Large User Org | Domestic Building | Multi Occupancy Building |
|----------------|------|-------|--------|-------------------|---------------|-----------------|------------|--------|---------------------|--------------|--------|--------|----------------|----------------|-------------------|--------------------------|
| CO | 149 | 10776 | 710 | 10199 | 37827 | 140056 | 4535 | 177639 | 120 | 88988 | 179446 | 91637 | 9557 | 1223 | 168666 | 28 |
| CR | 104 | 8502 | 1017 | 14103 | 26726 | 135475 | 3552 | 156509 | 0 | 9650 | 157532 | 95781 | 7316 | 1460 | 148756 | 165 |
| CT | 105 | 13037 | 781 | 15844 | 43167 | 163679 | 6128 | 204852 | 318 | 50911 | 207726 | 207726 | 11647 | 1566 | 194513 | 2866 |
| CV | 312 | 17404 | 1631 | 16306 | 45271 | 292418 | 6071 | 335580 | 64 | 80107 | 341983 | 170314 | 14804 | 2659 | 324520 | 1139 |
| CW | 89 | 8517 | 488 | 3081 | 17629 | 109213 | 1157 | 127940 | 30 | 46366 | 130153 | 87546 | 7583 | 1071 | 121499 | 62 |
| DA | 62 | 8414 | 548 | 11567 | 25756 | 150702 | 3328 | 174317 | 345 | 26776 | 174949 | 140269 | 7545 | 1010 | 166394 | 79 |
| DD | 230 | 6897 | 271 | 5259 | 23448 | 96000 | 1318 | 112168 | 1267 | 27850 | 120135 | 52048 | 6317 | 580 | 113238 | 3716 |
| DE | 223 | 18135 | 995 | 9411 | 36861 | 266544 | 5827 | 302172 | 1378 | 180087 | 308196 | 174327 | 16419 | 1791 | 289986 | 143 |
| DG | 71 | 5761 | 90 | 2323 | 21157 | 47585 | 589 | 55508 | 49 | 27673 | 71119 | 45596 | 5429 | 332 | 65358 | 487 |
| DH | 118 | 6189 | 237 | 1336 | 9370 | 122159 | 1318 | 130739 | 255 | 68653 | 133993 | 82066 | 5596 | 606 | 127791 | 71 |
| DL | 119 | 10155 | 358 | 2398 | 21711 | 134769 | 1150 | 146969 | 338 | 57914 | 160577 | 160577 | 9287 | 896 | 150394 | 250 |
| DN | 158 | 18262 | 749 | 7289 | 37201 | 280459 | 3282 | 318824 | 508 | 149117 | 324568 | 324568 | 16708 | 1556 | 306304 | 195 |
| DT | 84 | 6792 | 271 | 7311 | 29233 | 65478 | 1103 | 83619 | 56 | 39076 | 96219 | 96219 | 6174 | 661 | 89384 | 64 |
| DY | 82 | 9339 | 644 | 6961 | 23044 | 151496 | 1706 | 174772 | 162 | 23436 | 177131 | 177131 | 8223 | 1170 | 167738 | 38 |
| E | 328 | 19227 | 1940 | 91063 | 101337 | 262489 | 11776 | 341128 | 0 | 0 | 343069 | 0 | 16997 | 2850 | 323222 | 8021 |
| EC | 173 | 12271 | 849 | 13675 | 18466 | 12118 | 2038 | 26765 | 0 | 0 | 27616 | 0 | 9745 | 2606 | 15265 | 182 |
| EH | 463 | 21075 | 1187 | 6838 | 142129 | 247960 | 4338 | 378993 | 220 | 52997 | 389709 | 168359 | 18876 | 2208 | 368625 | 1811 |
| EN | 81 | 6247 | 835 | 12869 | 22137 | 118973 | 5020 | 137798 | 0 | 28523 | 138729 | 138729 | 4874 | 1380 | 132475 | 73 |
| EX | 242 | 18792 | 755 | 15427 | 74028 | 154311 | 3945 | 197443 | 763 | 89977 | 237777 | 172519 | 17176 | 1757 | 218844 | 880 |
| FK | 125 | 6409 | 248 | 2483 | 16626 | 100030 | 1197 | 113658 | 135 | 46205 | 118567 | 56834 | 5777 | 634 | 112156 | 647 |
| FY | 111 | 9805 | 304 | 7097 | 12814 | 117920 | 1816 | 130959 | 0 | 5939 | 131304 | 66715 | 9151 | 657 | 121496 | 1826 |

Metering Point Address Data

| Post-code Area | Dept | Org | PO Box | Sub-building name | Building name | Building number | Dep Thfare | Thfare | Double Dep Locality | Dep Locality | Town | County | Small User Org | Large User Org | Domestic Building | Multi Occupancy Building |
|----------------|------|-------|--------|-------------------|---------------|-----------------|------------|--------|---------------------|--------------|--------|--------|----------------|----------------|-------------------|--------------------------|
| G | 682 | 27466 | 1476 | 137317 | 41342 | 473555 | 2713 | 505189 | 6526 | 221382 | 511060 | 39332 | 24232 | 3249 | 483579 | 11419 |
| GL | 185 | 16724 | 1108 | 15818 | 71912 | 183452 | 6881 | 239427 | 908 | 133406 | 260504 | 191074 | 15202 | 2076 | 243226 | 402 |
| GU | 151 | 18432 | 2387 | 11395 | 74873 | 220671 | 9204 | 289933 | 57 | 96360 | 297798 | 297798 | 15100 | 3587 | 279111 | 126 |
| GY | 11 | 3103 | 777 | 2442 | 22024 | 3541 | 3537 | 26440 | 41 | 26943 | 27570 | 0 | 2390 | 806 | 24374 | 120 |
| HA | 95 | 9393 | 1339 | 8823 | 28613 | 147160 | 4005 | 172219 | 0 | 2655 | 173564 | 173564 | 7385 | 2069 | 164110 | 602 |
| HD | 88 | 6792 | 392 | 2765 | 10826 | 101036 | 1226 | 111695 | 1092 | 48816 | 113353 | 12267 | 6160 | 675 | 106518 | 71 |
| HG | 40 | 4968 | 313 | 5133 | 12170 | 47391 | 1021 | 56887 | 0 | 13844 | 61172 | 61172 | 4503 | 527 | 56142 | 218 |
| HP | 127 | 11397 | 1425 | 4234 | 36430 | 157010 | 4770 | 192246 | 18 | 61630 | 197460 | 197460 | 9242 | 2260 | 185958 | 77 |
| HR | 155 | 6037 | 343 | 3799 | 28218 | 44328 | 941 | 53408 | 1171 | 34170 | 75599 | 29832 | 5610 | 589 | 69400 | 74 |
| HS | 16 | 888 | 26 | 162 | 3802 | 9921 | 0 | 5358 | 1112 | 10405 | 13812 | 6498 | 847 | 41 | 12924 | 494 |
| HU | 154 | 9795 | 492 | 4940 | 16098 | 180434 | 10804 | 197580 | 193 | 53522 | 199038 | 52370 | 8738 | 1113 | 189187 | 544 |
| HX | 56 | 4483 | 238 | 2788 | 10153 | 59419 | 1339 | 67732 | 173 | 14485 | 71288 | 71288 | 4045 | 461 | 66782 | 22 |
| IG | 55 | 5994 | 676 | 9460 | 16896 | 104841 | 3612 | 118874 | 0 | 344 | 119550 | 119550 | 5015 | 1003 | 113532 | 254 |
| IM | 88 | 3894 | 472 | 4070 | 11966 | 26537 | 1431 | 37406 | 496 | 12264 | 39433 | 39433 | 3273 | 633 | 35527 | 41 |
| IP | 154 | 16267 | 955 | 8310 | 59411 | 186631 | 4148 | 240773 | 120 | 122509 | 250446 | 162466 | 14557 | 1741 | 234148 | 244 |
| IV | 185 | 6920 | 225 | 4659 | 28183 | 67312 | 792 | 75200 | 4262 | 34543 | 97630 | 59527 | 6395 | 526 | 90709 | 540 |
| JE | 33 | 4262 | 957 | 6853 | 24838 | 14209 | 10446 | 37786 | 0 | 37782 | 38830 | 0 | 3330 | 1060 | 34440 | 10 |
| KA | 166 | 8687 | 284 | 4424 | 23199 | 144508 | 509 | 162047 | 12 | 42907 | 169805 | 139029 | 7895 | 792 | 161118 | 2094 |
| KT | 125 | 12965 | 1905 | 17988 | 46511 | 172243 | 6189 | 215943 | 0 | 30188 | 217851 | 217851 | 10208 | 2872 | 204771 | 1349 |
| KW | 46 | 1971 | 42 | 1279 | 11820 | 12791 | 34 | 16287 | 94 | 10076 | 25573 | 21531 | 1866 | 105 | 23602 | 217 |
| KY | 204 | 8116 | 272 | 1354 | 17342 | 142436 | 2270 | 155097 | 216 | 67385 | 162068 | 157569 | 7409 | 707 | 153952 | 1176 |

Metering Point Address Data

| Post-code Area | Dept | Org | PO Box | Sub-building name | Building name | Building number | Dep Thfare | Thfare | Double Dep Locality | Dep Locality | Town | County | Small User Org | Large User Org | Domestic Building | Multi Occupancy Building |
|----------------|------|-------|--------|-------------------|---------------|-----------------|------------|--------|---------------------|--------------|--------|--------|----------------|----------------|-------------------|--------------------------|
| L | 393 | 19802 | 1083 | 12591 | 40448 | 340483 | 3664 | 380070 | 0 | 80316 | 381209 | 63449 | 17523 | 2335 | 361351 | 2486 |
| LA | 146 | 11293 | 372 | 5267 | 34151 | 114903 | 2249 | 138211 | 251 | 53525 | 153507 | 123364 | 10447 | 856 | 142204 | 186 |
| LD | 33 | 2157 | 71 | 1217 | 12222 | 9658 | 496 | 14255 | 54 | 11029 | 23161 | 23161 | 2038 | 162 | 20961 | 77 |
| LE | 325 | 22152 | 1631 | 13785 | 38911 | 348449 | 2720 | 387516 | 956 | 161318 | 389753 | 166943 | 19623 | 2762 | 367368 | 141 |
| LL | 252 | 15198 | 504 | 12528 | 79058 | 161365 | 5998 | 205386 | 1545 | 120421 | 247201 | 247201 | 14179 | 1330 | 231692 | 1332 |
| LN | 72 | 8252 | 317 | 3116 | 24562 | 94021 | 1632 | 117502 | 408 | 61845 | 122191 | 39112 | 7503 | 749 | 113939 | 34 |
| LS | 290 | 19161 | 1414 | 9538 | 28771 | 301708 | 3257 | 331149 | 4257 | 105992 | 334478 | 54890 | 16928 | 2533 | 315017 | 1819 |
| LU | 44 | 5814 | 601 | 6051 | 13831 | 114745 | 3701 | 128597 | 81 | 24140 | 129900 | 49876 | 4905 | 918 | 124077 | 141 |
| M | 441 | 26366 | 2355 | 44654 | 59707 | 446346 | 7114 | 499744 | 13896 | 236045 | 502267 | 25993 | 22465 | 4037 | 475765 | 1442 |
| ME | 155 | 12103 | 913 | 8467 | 35298 | 203545 | 7443 | 239622 | 0 | 85773 | 241918 | 241918 | 10575 | 1684 | 229659 | 374 |
| MK | 116 | 11264 | 1236 | 6302 | 22539 | 171430 | 2608 | 193605 | 730 | 146356 | 196676 | 11712 | 9179 | 2100 | 185397 | 203 |
| ML | 141 | 7691 | 211 | 4600 | 17197 | 144821 | 547 | 156920 | 334 | 33259 | 163796 | 149023 | 7045 | 647 | 156104 | 512 |
| N | 194 | 17731 | 2442 | 73659 | 89115 | 224693 | 9486 | 304142 | 0 | 0 | 306585 | 0 | 15227 | 3365 | 287993 | 18274 |
| NE | 419 | 25451 | 1210 | 15741 | 50441 | 476107 | 6877 | 515926 | 78 | 99357 | 532559 | 362040 | 23049 | 2642 | 506868 | 982 |
| NG | 407 | 23061 | 1667 | 11403 | 45553 | 444104 | 3224 | 490893 | 2971 | 284957 | 495826 | 167003 | 20293 | 2793 | 472740 | 868 |
| NN | 236 | 15927 | 1249 | 6302 | 28349 | 235442 | 1567 | 260465 | 188 | 92125 | 265040 | 149537 | 14052 | 1923 | 249065 | 47 |
| NP | 322 | 10248 | 486 | 6202 | 32994 | 174746 | 3041 | 198985 | 5846 | 128264 | 212062 | 212062 | 9498 | 1039 | 201525 | 493 |
| NR | 368 | 19704 | 926 | 11300 | 58617 | 255041 | 5828 | 314463 | 163 | 147622 | 320166 | 160465 | 17969 | 1744 | 300453 | 700 |
| NW | 244 | 15082 | 2236 | 74087 | 85105 | 134165 | 5494 | 207396 | 0 | 0 | 209632 | 0 | 12755 | 3144 | 193733 | 9992 |
| OL | 157 | 11238 | 534 | 6706 | 17441 | 182831 | 2310 | 202383 | 7 | 61454 | 203064 | 115424 | 10091 | 1172 | 191801 | 134 |
| OX | 215 | 15386 | 1606 | 8622 | 47652 | 192791 | 1571 | 233439 | 231 | 103029 | 244605 | 174553 | 12630 | 3039 | 228936 | 205 |

Metering Point Address Data

| Post-code Area | Dept | Org | PO Box | Sub-building name | Building name | Building number | Dep Thfare | Thfare | Double Dep Locality | Dep Locality | Town | County | Small User Org | Large User Org | Domestic Building | Multi Occupancy Building |
|----------------|------|-------|--------|-------------------|---------------|-----------------|------------|--------|---------------------|--------------|--------|--------|----------------|----------------|-------------------|--------------------------|
| PA | 175 | 7200 | 273 | 4847 | 48261 | 98642 | 1756 | 137337 | 578 | 28885 | 149320 | 137068 | 6419 | 781 | 142120 | 4927 |
| PE | 239 | 20905 | 1509 | 9562 | 60665 | 296967 | 6655 | 355648 | 5383 | 197168 | 363964 | 265451 | 17894 | 3056 | 343014 | 610 |
| PH | 112 | 6221 | 184 | 4187 | 27804 | 43927 | 1069 | 58618 | 506 | 29671 | 74160 | 40185 | 5711 | 510 | 67939 | 1252 |
| PL | 195 | 13788 | 575 | 8084 | 54096 | 170315 | 1520 | 199521 | 2501 | 69973 | 229874 | 117522 | 12609 | 1261 | 216004 | 1110 |
| PO | 258 | 20169 | 1356 | 39579 | 76516 | 286444 | 5670 | 357127 | 48 | 49865 | 360871 | 306102 | 17673 | 2551 | 340647 | 108 |
| PR | 284 | 12806 | 792 | 11264 | 29764 | 190413 | 3576 | 221078 | 56 | 141265 | 223029 | 81124 | 11400 | 1427 | 210202 | 389 |
| RG | 235 | 19216 | 2402 | 11836 | 60639 | 247353 | 7593 | 300616 | 755 | 149713 | 312188 | 182955 | 15633 | 3641 | 292914 | 68 |
| RH | 157 | 15244 | 1852 | 13453 | 56935 | 157131 | 8718 | 214613 | 366 | 64214 | 218413 | 199709 | 12539 | 2794 | 203080 | 318 |
| RM | 104 | 8810 | 658 | 11335 | 22469 | 181848 | 3521 | 205006 | 46 | 16310 | 205730 | 141833 | 7540 | 1291 | 196899 | 25 |
| S | 418 | 29305 | 1693 | 10501 | 46388 | 538552 | 4466 | 585965 | 2508 | 268242 | 589780 | 317235 | 26508 | 2865 | 560407 | 782 |
| SA | 286 | 16840 | 651 | 10371 | 72290 | 246714 | 4349 | 283009 | 6474 | 209220 | 325645 | 206627 | 15609 | 1627 | 308409 | 531 |
| SE | 388 | 19397 | 2406 | 120877 | 137011 | 284497 | 12205 | 402572 | 0 | 0 | 404978 | 0 | 16544 | 3493 | 384941 | 3631 |
| SG | 68 | 8510 | 797 | 4101 | 21252 | 141028 | 5023 | 160334 | 18 | 47344 | 164302 | 149320 | 7130 | 1393 | 155779 | 60 |
| SK | 176 | 17290 | 1141 | 15790 | 35486 | 235887 | 2704 | 268196 | 581 | 112368 | 273951 | 273951 | 15328 | 2176 | 256447 | 464 |
| SL | 48 | 8464 | 1212 | 5643 | 31506 | 114343 | 3748 | 146310 | 19 | 33311 | 147617 | 86517 | 6823 | 1846 | 138948 | 22 |
| SM | 34 | 3627 | 436 | 12203 | 16430 | 77453 | 1820 | 89439 | 0 | 699 | 89875 | 89875 | 3095 | 675 | 86105 | 266 |
| SN | 243 | 11031 | 907 | 3607 | 27711 | 150410 | 2595 | 170586 | 301 | 74631 | 182059 | 87879 | 9366 | 1667 | 171026 | 134 |
| SO | 235 | 15821 | 1600 | 24885 | 61561 | 213067 | 5590 | 269531 | 265 | 126237 | 275778 | 99734 | 13316 | 2524 | 259938 | 161 |
| SP | 53 | 6170 | 449 | 4745 | 26046 | 67686 | 2074 | 87341 | 648 | 48866 | 95795 | 46741 | 5394 | 782 | 89619 | 78 |
| SR | 77 | 4630 | 180 | 3167 | 6708 | 106390 | 316 | 112666 | 0 | 9200 | 114294 | 29700 | 4238 | 417 | 109639 | 361 |
| SS | 161 | 9800 | 873 | 13753 | 32847 | 192936 | 4440 | 223347 | 3 | 32041 | 224411 | 183089 | 8250 | 1556 | 214605 | 178 |

Metering Point Address Data

| Post-code Area | Dept | Org | PO Box | Sub-building name | Building name | Building number | Dep Thfare | Thfare | Double Dep Locality | Dep Locality | Town | County | Small User Org | Large User Org | Domestic Building | Multi Occupancy Building |
|----------------|------|-------|--------|-------------------|---------------|-----------------|------------|--------|---------------------|--------------|--------|--------|----------------|----------------|-------------------|--------------------------|
| ST | 281 | 18322 | 899 | 11395 | 38322 | 243179 | 1832 | 279375 | 298 | 88144 | 284935 | 65956 | 16400 | 1977 | 266558 | 26 |
| SW | 349 | 26443 | 3236 | 119017 | 127874 | 250480 | 10609 | 357452 | 0 | 0 | 360720 | 0 | 22454 | 4747 | 333519 | 9431 |
| SY | 120 | 11379 | 505 | 4741 | 55591 | 84668 | 4620 | 106659 | 6035 | 71445 | 145828 | 93403 | 10534 | 1134 | 134160 | 206 |
| TA | 96 | 10029 | 379 | 6828 | 40878 | 93411 | 1569 | 122110 | 134 | 55896 | 138914 | 138914 | 9379 | 831 | 128704 | 35 |
| TD | 53 | 4393 | 94 | 2049 | 19738 | 33556 | 1019 | 43558 | 25 | 14245 | 55116 | 42473 | 4118 | 278 | 50720 | 518 |
| TF | 54 | 5237 | 318 | 1711 | 12058 | 72496 | 1673 | 80893 | 189 | 55108 | 86459 | 86459 | 4729 | 654 | 81076 | 31 |
| TN | 165 | 20993 | 1712 | 18377 | 91898 | 190498 | 7407 | 277456 | 164 | 119471 | 289091 | 289091 | 18684 | 2654 | 267753 | 1764 |
| TQ | 97 | 8436 | 455 | 14362 | 38608 | 92004 | 3351 | 120282 | 1550 | 41682 | 132552 | 102612 | 7566 | 970 | 124016 | 298 |
| TR | 128 | 10018 | 376 | 5848 | 42840 | 82634 | 2324 | 112692 | 1354 | 66906 | 130810 | 129615 | 9215 | 887 | 120708 | 503 |
| TS | 168 | 12353 | 586 | 6086 | 17706 | 245134 | 1093 | 262147 | 195 | 82602 | 266346 | 266346 | 11358 | 1041 | 253947 | 294 |
| TW | 89 | 11917 | 1406 | 18765 | 37123 | 160535 | 4733 | 193013 | 0 | 11810 | 194849 | 138655 | 9694 | 2336 | 182819 | 609 |
| UB | 76 | 6529 | 843 | 3612 | 17425 | 114990 | 3478 | 131627 | 0 | 8389 | 132476 | 132476 | 5206 | 1381 | 125889 | 24 |
| W | 263 | 31720 | 3825 | 83365 | 87603 | 160355 | 7448 | 232735 | 0 | 0 | 236571 | 0 | 26788 | 6099 | 203684 | 9868 |
| WA | 263 | 14620 | 1122 | 6574 | 22119 | 238326 | 3592 | 263131 | 225 | 131401 | 264469 | 165459 | 12800 | 2022 | 249647 | 103 |
| WC | 119 | 8246 | 603 | 12869 | 13069 | 11920 | 266 | 22778 | 0 | 0 | 23381 | 0 | 6695 | 1639 | 15047 | 103 |
| WD | 60 | 5963 | 900 | 7706 | 17473 | 85181 | 4648 | 102407 | 22 | 19135 | 103488 | 46000 | 4189 | 1801 | 97498 | 45 |
| WF | 91 | 10276 | 524 | 3614 | 15526 | 197963 | 1915 | 215730 | 72 | 75144 | 216707 | 216707 | 9391 | 984 | 206332 | 154 |
| WN | 81 | 6437 | 271 | 2684 | 9470 | 123615 | 1450 | 133462 | 44 | 63204 | 134556 | 134556 | 5877 | 583 | 128096 | 128 |
| WR | 81 | 8112 | 604 | 5973 | 30945 | 90576 | 1075 | 116730 | 666 | 40993 | 124375 | 63876 | 7312 | 1134 | 115929 | 129 |
| WS | 122 | 10382 | 619 | 9502 | 20034 | 163213 | 2830 | 184343 | 67 | 26080 | 185374 | 95228 | 9265 | 1161 | 174948 | 87 |
| WV | 107 | 8980 | 623 | 8738 | 21264 | 147922 | 3601 | 168809 | 364 | 36088 | 171453 | 50786 | 7789 | 1231 | 162433 | 95 |

Metering Point Address Data

| Post-code Area | Dept | Org | PO Box | Sub-building name | Building name | Building number | Dep Thfare | Thfare | Double Dep Locality | Dep Locality | Town | County | Small User Org | Large User Org | Domestic Building | Multi Occupancy Building |
|-------------------|--------------|----------------|---------------|-------------------|----------------|-----------------|---------------|-----------------|---------------------|----------------|-----------------|-----------------|----------------|----------------|-------------------|--------------------------|
| YO | 170 | 18780 | 758 | 6639 | 46906 | 188835 | 5230 | 226736 | 540 | 112738 | 242524 | 124512 | 17277 | 1555 | 223692 | 1385 |
| ZE | 37 | 884 | 20 | 675 | 5285 | 4813 | 0 | 6153 | 1350 | 7122 | 10552 | 3609 | 849 | 35 | 9668 | 325 |
| Totals | 22634 | 1569343 | 115499 | 1881953 | 4753925 | 21833670 | 476934 | 25821117 | 116589 | 8637880 | 26738075 | 15501602 | 1380549 | 206213 | 25151313 | 145003 |
| % of Total | 0.08 | 5.87 | 0.43 | 7.04 | 17.78 | 81.66 | 1.78 | 96.57 | 0.44 | 32.31 | 100 | 57.98 | 5.18 | 0.77 | 94.07 | 0.54 |

Appendix B Recent PAF Re-Codings

This appendix presents some samples of the PAF re-coding data taken from Postcode Update 31. The data for updates 28, 29, 30 and 31 is available as .PDF files on the Royal Mail website. The U.R.L. is given below:

http://www.royalmail.com/default_frames.asp?strSection=atwork&arrImagehref=atwork%2Famc%2Famc%5Fhome%2Easp%3FstrSection%3Damc%5Fhome%26amp%3BstrHead%3Damc%5Fhome%26amp%3BstrSubHead%3Damc%26amp%3BstrPageFile%3Dwelcome%2Easp%26amp%3BstrTemplate%3Damc%5Fhome

One can navigate to this location from the Royal Mail Home Page:

<http://www.royalmail.com>

At the Home Page, select "Address management" from the drop-down box in the top right of the screen, click on "Go", then choose "Postcode update" from the right-most list.

BICESTER

The Postcode sector OX6 - 0 is completely re-coded to OX25 - 1, OX25 - 2, OX26 - 4, OX26 - 5, OX26 - 6, OX27 - 9 and OX27 - 0. Exceptionally one code is re-coded to OX25 - 6. As a result OX6 - 0 will no longer be a valid sector.

| Old Postcode | New Postcode |
|---------------|----------------|
| OX6 0AA - 0AB | OX26 5AA- 5AB |
| OX6 0AD - 0AG | OX27 0AD- 0AG |
| OX6 0AH | OX25 1AH |
| OX6 0AJ - 0AQ | OX27 0AJ - 0AQ |
| OX6 0AS - 0AX | OX27 0AS- 0AX |
| OX6 0AY - 0BE | OX27 9AY- 9BE |
| OX6 0BG - 0BH | OX27 9BG- 9BH |
| OX6 0BJ - 0BN | OX27 0BJ - 0BN |
| OX6 0BQ | OX27 0BQ † |
| OX6 0BS | OX27 0BS |
| OX6 0BW | OX27 0BW |
| OX6 0BX | OX27 9BX |
| OX6 0BZ | OX26 6GR * |
| OX6 0DA - 0DL | OX26 5DA- 5DL |
| OX6 0DP - 0DR | OX26 5DP- 5DR |
| OX6 0DS | OX26 5DS † |
| OX6 0DT - 0DW | OX26 5DT- 5DW |
| OX6 0DX | OX26 5DX † |

Metering Point Address Data

| | |
|--------------|---------------|
| OX6 0DY- 0EE | OX26 5DY- 5EE |
| OX6 0EH | OX26 5EH |
| OX6 0EJ | OX26 6GL * |
| OX6 0EL | OX26 5EL |
| OX6 0EN | OX27 0EN |
| OX6 0EP | OX25 6EP |

Old Postcode Delivery Point Details Street and / or Locality New Postcode

OX6 0BQ

1-6 Cheshire Cottages
School Hill,
Charndon,
BICESTER **OX27 0BT**

All remaining delivery points OX27 0BQ

OX6 0DS

Kasbah, The Green
AND
Six Gables, The Green
AND
Wits End, The Green
Station Road, Launton, BICESTER **OX26 5EF**

1-14 Sharpes Cottages **OX26 5BU**

All remaining delivery points **OX26 5DS**

OX6 0DX

1-4 Grange Mews
Station Road, Launton, BICESTER **OX26 5EG**

1-4 Grange Yard **OX26 5EQ**

All remaining delivery points **OX26 5DX**

† Delivery Points within this Postcode have changed. These changes are not shown in the Magnetic Media version of Postcode Update

** The last two letters of the Postcode have also changed*

CHINNOR

The Postcode sector OX9 - 4 is completely re-coded to OX39 - 4. As a result OX9 - 4 will no longer be a valid sector.

Metering Point Address Data

| Old Postcode | New Postcode |
|---------------|---------------|
| OX9 4AA - 4AD | OX39 4AA- 4AD |
| OX9 4AE | OX39 4AE † |
| OX9 4AF - 4BS | OX39 4AF- 4BS |
| OX9 4BT | OX39 4BT † |
| OX9 4BU - 4DZ | OX39 4BU- 4DZ |
| OX9 4EA | OX39 4EA † |
| OX9 4EB - 4EY | OX39 4EB- 4EY |
| OX9 4EZ | OX39 4EZ † |
| OX9 4GW - 4PP | OX39 4GW- 4PP |
| OX9 4PQ | OX39 4PQ † |
| OX9 4PR - 4PT | OX39 4PR- 4PT |
| OX9 4PU | OX39 4PU † |
| OX9 4PW - 4YY | OX39 4PW- 4YY |

Old Postcode Delivery Point Details Street and / or Locality New Postcode

OX9 4AE

Upper Farm

AND

1-2 Upper Farm Bungalow
Henton, CHINNOR **OX39 4AQ**

All remaining delivery points **OX39 4AE**

OX9 4BT

1-2 Cromwell Cottage

Crowell Hill, CHINNOR **OX39 4DA**

All remaining delivery points **OX39 4BT**

OX9 4EA

Willow Pond Paddocks

Lower Icknield Way, CHINNOR **OX39 4ED**

All remaining delivery points **OX39 4EA**

OX9 4EZ

110

AND

118

AND

120

Station Road, CHINNOR **OX39 4QG**

122

AND

124 **OX39 4QQ**

All remaining delivery points **OX39 4EZ**

OX9 4PQ

10

Church Road, CHINNOR **OX39 4QL**

All remaining delivery points **OX39 4PQ**

OX9 4PU

School Bungalow

Station Road, CHINNOR **OX39 4PY**

All remaining delivery points **OX39 4PU**

† Delivery Points within this Postcode have changed. These changes are not shown in the Magnetic Media version of Postcode Update

** The last two letters of the Postcode have also changed*

Appendix C Examples of Scottish Tenement Addresses

The format of sub-building information can vary greatly and the examples below highlight the importance of maintaining accurate sub-building details.

In Glasgow, there are large areas of tenement blocks, the building elements of which can take several formats. 0/1,24 or 2F3,17 (describing tenement 0/1 in building 24 and tenement 2F3 in building 17).

Accuracy in the building (as well as sub-building) detail, is also important as highlighted in the example of Ancaster Drive, Glasgow, where there is a building number 24 and also a 24a. Both of these contain tenements named 0/1. Number 24a also contains tenements 0/2, 1/1 and 1/2.

The table below shows a breakdown of some example addresses in Scotland, which highlight some of the issues concerning the placement of PAF elements. It is clear that generalised rules cannot be applied to all addresses and that the preservation of sub-building information is of utmost importance (depicted in the Shandwick Place example).

| Sub-Building | Building Name | Building Number | Thoroughfare | Town | Postcode | DPS |
|--------------|---------------|-----------------|------------------|-----------|----------|-----|
| | 1F1 | 15 | ST. MARYS STREET | EDINBURGH | EH1 1TA | 1E |
| | 4F3 | 15 | ST. MARYS STREET | EDINBURGH | EH1 1TA | 1Z |
| 3F1 | | 54 | SHANDWICK PLACE | EDINBURGH | EH2 4RT | 2H |
| | | 54 | SHANDWICK PLACE | EDINBURGH | EH2 4RT | 2F |
| | 17/1 | | EYRE PLACE | EDINBURGH | EH3 5EW | 1A |
| | 31A | | EYRE PLACE | EDINBURGH | EH3 5EX | 1D |
| 2/1 | | 74 | BRUNSWICK STREET | GLASGOW | G1 1TD | 1N |
| 2/2 | | 74 | BRUNSWICK STREET | GLASGOW | G1 1TD | 1P |

Appendix D Examples of PAF ADDRESSES

The examples below show variances in how addresses are held in PAF.

| | |
|-----------------------------------|---------------|
| Department | |
| Organisation | |
| PO Box | |
| Sub-Building Name / Number | |
| Building Name | |
| Building Number | 60 |
| Dependent Thoroughfare | |
| Thoroughfare | Waterloo Road |
| Double Dependent Locality | |
| Dependent Locality | Waterloo |
| Locality (Post Town) | LIVERPOOL |
| County | |
| Postcode | L22 1RF |

| | |
|-----------------------------------|---------------|
| Department | |
| Organisation | |
| PO Box | |
| Sub-Building Name / Number | |
| Building Name | Dunroamin |
| Building Number | |
| Dependent Thoroughfare | |
| Thoroughfare | |
| Double Dependent Locality | |
| Dependent Locality | St. Fergus |
| Locality (Post Town) | PETERHEAD |
| County | Aberdeenshire |
| Postcode | AB42 4NA |

| | |
|-----------------------------------|---------------|
| Department | |
| Organisation | |
| PO Box | |
| Sub-Building Name / Number | |
| Building Name | |
| Building Number | 35 |
| Dependent Thoroughfare | |
| Thoroughfare | Galloway Road |
| Double Dependent Locality | |
| Dependent Locality | |
| Locality (Post Town) | LIVERPOOL |
| County | |
| Postcode | L22 4QX |

| | |
|-----------------------------------|---------------|
| Department | |
| Organisation | |
| PO Box | |
| Sub-Building Name / Number | |
| Building Name | Dunroamin |
| Building Number | |
| Dependent Thoroughfare | |
| Thoroughfare | The Avenue |
| Double Dependent Locality | |
| Dependent Locality | Maud |
| Locality (Post Town) | PETERHEAD |
| County | Aberdeenshire |
| Postcode | AB42 2NA |

Metering Point Address Data

| | |
|-----------------------------------|---------------|
| Department | |
| Organisation | |
| PO Box | |
| Sub-Building Name / Number | Dunroamin |
| Building Name | East Moss |
| Building Number | |
| Dependent Thoroughfare | |
| Thoroughfare | |
| Double Dependent Locality | |
| Dependent Locality | |
| Locality (Post Town) | FRASERBURGH |
| County | Aberdeenshire |
| Postcode | AB43 7DD |

| | |
|-----------------------------------|---------------|
| Department | |
| Organisation | |
| PO Box | |
| Sub-Building Name / Number | |
| Building Name | Dunroamin |
| Building Number | 5 |
| Dependent Thoroughfare | |
| Thoroughfare | Windsor Road |
| Double Dependent Locality | |
| Dependent Locality | |
| Locality (Post Town) | ROWLEY REGIS |
| County | West Midlands |
| Postcode | B65 9HP |

| | |
|-----------------------------------|--------------|
| Department | |
| Organisation | |
| PO Box | |
| Sub-Building Name / Number | |
| Building Name | Dunroamin |
| Building Number | |
| Dependent Thoroughfare | |
| Thoroughfare | Tuckers Lane |
| Double Dependent Locality | |
| Dependent Locality | |
| Locality (Post Town) | CASTLE CARY |
| County | Somerset |
| Postcode | BA7 7LF |

| | |
|-----------------------------------|-----------|
| Department | |
| Organisation | |
| PO Box | |
| Sub-Building Name / Number | Dunroamin |
| Building Name | The Grove |
| Building Number | |
| Dependent Thoroughfare | |
| Thoroughfare | |
| Double Dependent Locality | |
| Dependent Locality | Irongray |
| Locality (Post Town) | DUMFRIES |
| County | |
| Postcode | DG2 9TN |

Metering Point Address Data

| | |
|-----------------------------------|-----------------|
| Department | |
| Organisation | |
| PO Box | |
| Sub-Building Name / Number | Flat 1 |
| Building Name | Dunroamin |
| Building Number | |
| Dependent Thoroughfare | |
| Thoroughfare | |
| Double Dependent Locality | |
| Dependent Locality | Ranby |
| Locality (Post Town) | RETFORD |
| County | Nottinghamshire |
| Postcode | DN22 8HT |

| | |
|-----------------------------------|----------------|
| Department | |
| Organisation | |
| PO Box | |
| Sub-Building Name / Number | |
| Building Name | Dunroamin |
| Building Number | |
| Dependent Thoroughfare | |
| Thoroughfare | |
| Double Dependent Locality | Carrick Castle |
| Dependent Locality | Lochgoilhead |
| Locality (Post Town) | CAIRNDOW |
| County | Argyll |
| Postcode | PA24 8AF |

| | |
|-----------------------------------|--------------|
| Department | |
| Organisation | |
| PO Box | |
| Sub-Building Name / Number | Dunroamin |
| Building Name | Polkelly |
| Building Number | |
| Dependent Thoroughfare | |
| Thoroughfare | |
| Double Dependent Locality | |
| Dependent Locality | |
| Locality (Post Town) | WEST CALDER |
| County | West Lothian |
| Postcode | EH55 8LN |

| | |
|-----------------------------------|-----------------|
| Department | |
| Organisation | P Hammond & Son |
| PO Box | |
| Sub-Building Name / Number | |
| Building Name | Dunroamin |
| Building Number | |
| Dependent Thoroughfare | |
| Thoroughfare | Valebridge Road |
| Double Dependent Locality | |
| Dependent Locality | |
| Locality (Post Town) | BURGESS HILL |
| County | West Sussex |
| Postcode | RH15 0RT |

Appendix E Improvement of Address Accuracy and Ongoing Maintenance

In order to conform to the best working practices approved by the Royal Mail, it is recommended that all MPAS databases are cleaned and reformatted to a specified standard based upon BS7666 Part 3.

Standardised and correctly formatted address databases will realise two major benefits for each business and also across the industry.

- A consistent customer address format creates a foundation for increased efficiency in information sharing
- The maintenance of clean and standardised address data becomes a simple and cost effective exercise

Address data is not static. Over time, postcodes change, building names alter, organisations move in and out of premises, new buildings are constantly under development and old buildings demolished.

Thus, once cleaned, the maintenance of an address database is a continual process. Tools can be employed to enhance and automate this maintenance process and one of the simplest techniques to adopt is the storage of further address-related data held against every PAF-matched customer address, in particular the Delivery Point Suffix (DPS) and Address Key data.

The following sub-sections consider aspects of the address or related data in the ongoing maintenance process.

Delivery Point Suffix

On average, a full postcode contains about 15 premises. However, there is significant variation in this average and the actual value ranges from more than one postcode for a premise (where a number of organisations share the same building for example), to over a hundred premises for a single postcode (where for example, a number of buildings each contain dozens of flats). It is for this reason that the building identifier and a postcode alone cannot uniquely define a full address.

In addition, a small number of postcodes represent several streets. For example, the postcode DT10 1NA contains three streets all of which contain a building number 1. Again, the building number and postcode together cannot uniquely identify the premise.

The Royal Mail has therefore developed a Delivery Point Suffix (DPS), a two character code (one alpha and one numeric) which enables each delivery point (rather than premise) to be uniquely identified.

A DPS value exists for all 26 million premises in the UK and is available as part of the PAF file. In the example above, each premise number 1 would be represented by a different DPS within the postcode DT10 1NA, (1W, 2W and 2R).

The key uses of the DPS include:

- De-duplication of addresses in databases
- As a means of holding full PAF address in only a few characters. The address may be easily generated from the DPS and postcode

Whilst the DPS and postcode uniquely represent an individual letterbox in the UK, the combination is not however, consistent over time. Postcodes change and when they do, DPS values for buildings may change too.

Address Key

To overcome the problems associated with DPS, the Royal Mail has introduced a second method by which premises may be uniquely identified. As an addition to the basic PAF data, the Royal Mail supply two further files, one contains a premise identifier and the other an organisation identifier.

The premise identifier file contains a unique identifier for all Royal Mail *small* users which includes all residential premises and small organisations.

The organisation identifier file contains a unique identifier for all organisations. This includes all *large* users and also all the organisations in the premise identifier file.

GB processes this data by combining the two identifier files, de-duplicating the small user organisations and generating a unique identifier called the GB Address Key, for every premise in the UK.

The benefit of Address Keys is that they do not change over time. If a postcode changes then the Address Key information will remain constant for every premise within the postcode. Additionally, if a premise is demolished then the Address Key and Organisation Keys will not be reused.

Address Key thus provides a unique key into PAF. It possible to store only the Address Key information in a customer database and then to generate the full address by reference to PAF, as and when it is required. However, it is often beneficial to store the full address details in addition to the Address Key, since an supplier's address database will include many non-PAF premises (for non-metered properties) and also non-PAF address elements (such as flats and units as discussed above, or London boroughs for example).

The real advantages of Address Key though, are realised in the process of address maintenance.

Building Information

There are three points that should be noted with respect to premise data (including organisation details).

1. Firstly, the address data received by GB has generally had all name and organisation details removed. For private residential premises, this usually presents no problem since occupant's names are not normally held on PAF¹. However, if the name is removed and there is no other building information for the premise, then it becomes impossible to PAF-clean the address.

An example, the thoroughfare Beveridge Row in Dunbar, East Lothian (postcode EH42 1TP) is listed on PAF as having sixteen premises. One of these premises is simply listed on PAF as "(Smith)" (including the braces). (Smith) is held within the PAF structure as the building element. If this address is held on a PES's supply point database and the line (Smith) is removed before PAF cleaning, then the resulting address, Beveridge Row, Dunbar, East Lothian becomes unmatchable to a premise.

2. Secondly, for commercial premises, organisation detail, (which is held on PAF), can when removed, render an address undeliverable. This is particularly common for farms and pub addresses. For example, the address "The George and Dragon, Liverpool Road, Chester" is received from the PES as simply "Liverpool Road, Chester". As this is a long street, covering several postcode sectors and containing hundreds of premises, it is therefore not possible to PAF-match such addresses. Although this will blur the statistics somewhat, the proportion of properties, which fail to PAF-match for this reason, is relatively low.

In some circumstances, organisation detail is not removed from the address and this can clearly help in the PAF-matching process. Ironically, those suppliers which hold addresses in a more structured format are generally more successful in identifying the organisation field within the

¹ There are about 14,000 PAF addresses which do actually hold name data, and this is usually placed in the sub-building field of the PAF address structure. For these addresses, this is often the only way of uniquely identifying a delivery point

address. It follows therefore, that more of these “cleaner” addresses have organisation detail successfully removed and are thus generally harder to PAF-match.

3. The third point concerns the issues surrounding the lack of sub-premise information in many PAF addresses. It is not uncommon for blocks of flats, tenements, units and other sub-premises each of which have their own electricity meter, yet for which the Royal Mail group together into a single delivery point. For example, “Princes House” may on PAF be listed as a single premise, with no sub-building detail. However, in reality, it may contain say 40 flats each having a separate meter and each therefore being listed as a separate address on the PES database.

When the database is cleaned against PAF, every one of the 40 flats will correctly match against Princes House. Depending upon the matching engine used, the ‘flat’ information may be regarded as superfluous detail and could possibly be lost. Thus, it is conceivable that automated PAF matching could result (in this example) in Princes House having all 40 MPANs associated with the single building.

Whilst it is still technically correct that all 40 MPANs are attached to the building, the loss of sub-premise detail in such a ‘cleaning’ exercise can lead to an address that although PAF matched, is actually less precise than before it was processed. Additionally, the relationship between the flat and its meter is lost.

In such cases, it is imperative that any sub-premise detail not held on PAF is maintained and re-merged with the ‘PAF-cleaned’ part of the address. However, depending upon structure of the original address, the process of extracting the non-PAF premise detail and re-merging it with the cleaned address can be a non-trivial task.

GB recognises the issues surrounding this problem and have therefore developed software procedures within its PAF cleaning process, in order to prevent the loss of the sub-premise/MPAN attachment.

Address Maintenance

Because of the dynamic nature of DPS as discussed above, its use within an address maintenance rôle is limited. Maintenance techniques however, based upon Address Key data can in most cases provide a relatively simple route to improved data accuracy and reduced database management requirements.

Without the Address Key, an address database will need to be refreshed for each new release of PAF to ensure that every address holds the correct postcodes and other address details. However, if the Address Key is held for each address record in the database, then addresses that have changed between versions two of PAF can be identified by reference to its Address Key.

On release of a new monthly or quarterly issue of the PAF data, a PAF supplier (such as GB) can supply a list of Address Keys for the addresses that have changed, together with a status code to indicate whether the record is an addition to PAF, a deletion or simply amended address details². Rather than re-cleaning the whole address database against PAF, a PES can simply identify records in the database that match those in the Address Key changes list and simply refresh the relevant address details.

Only those addresses in the PES database which do not have associated Address Keys need be re-matched against PAF in order to determine whether any of the previously non-PAF addresses now match against a new issue of the PAF data. However, care should, as always be taken when matching what was once a non-PAF address to PAF, in that critical, non-PAF sub-premise detail should never be lost.

² Note that because the Address Key (as supplied by GB) is a concatenation of the address and organisation identifiers on the original Royal Mail PAF files, then should the organisation details for a particular building change, then the organisation identifier and also the Address Key may change. Thus for a particular premise, the address changes file may indicate a deletion and an addition to the PAF (i.e. a deleted and new Address Key) when in fact it is simply a single PAF element (the organisation in this case) that has changed.