



## Notes on the Background of Data Supplies

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# 1.Introduction

This document builds on, and is a progression of, earlier documentation detailing background of data supplies used in PointX. **This assumes customers have access to all classes of data for all areas of the country so depending on a customer's exact configuration it is likely that certain sections of this document may not be relevant.**

Not all customers receive the "Provenance" field in their order configuration so it might not be obvious to users which data feed individual records are from.

The intention of the PointX product is to bring together information from various "best of breed" suppliers. To this end PointX has entered into agreements with almost 150 data providers and this document gives more information on these, the data provided to PointX and how this is handled.

Previously, it reported all relevant supplied instances (including duplicates) that were held. Currently, the base data has been processed to provide, as far as possible, a de-duplicated subset. The de-duplication employed does mean that unless a provider has been assigned as a preferred supplier that records co-incident with records from other suppliers are likely to be removed from reporting. Thus, even though a supply from a provider may for example number say 500 records, depending on the degree of overlap with other suppliers, a much smaller number of records might end up being reported in PointX.

Only features which have been located to, or adjacent to, an address or location were previously potentially reported within PointX . However, from the December 2004 release all payphones and Cash Machines have been included, from March 2008 all Wi-Fi Hotspots and from March 2015 all Open Plaques, within relevant supplies, regardless of their positional accuracies as these types of record are known to not be duplicated by other records held. Payphones were removed from the December 2016 release.

In order to establish the type of feature that each individual record describes, a classification is assigned. If previously unreported types of features are included, or existing information is re-classified, it may become necessary to amend or expand the product's classification system from time-to-time. Such classification amendments, when they occur, are detailed within the Product Amendments documentation separately circulated.

## 2. Individual Provenance Background

This section covers the characteristics of the current suppliers of information to PointX. Information is provided, where known, on geographic coverage, numbers of records, use the provider has for the data themselves, how it is collected, its quality and possible problems, supply frequency, stipulated processing times, likely change volumes and other information the provider holds along with where it is likely to be reported within PointX. It must be remembered that PointX only report information for Great Britain.

### Business Data

#### 118 Information

118 Information data was originally used primarily to aid in credit checking applications however it is a stated aim that this data becomes more widely used as a trade data holding in its own right and it is being maintained with this aim. Dedicated call centres ring new businesses, based on a BT OSIS feed, and various other data sources and strategies are used to maintain the database to keep it complete and minimise obsolete instances. PointX is aware of certain trade data scenarios missing from such large datasets as Thomson and 118 Information and has previously had to create these records themselves. 118 Information are keen to work with PointX to get these instances included within their own holding which will then save PointX having to maintain these themselves whilst also helping 118 Information and their other customers by making their holdings more complete. 118 Information also use address validation software so supplied addresses tend to be good.

Records are classified to a very granular level in most instances. However, there are certain types of activity that are aggregated into generic groupings or can be misclassified and this does cause issues.

The 118 Information holding is a very good source for most trade and businesses but may not be as comprehensive as niche suppliers of a particular type of information so by using the preferred supplier ranking it is likely that these niche suppliers will report at the expense of 118 Information data where they overlap. Also, for certain types of information the 118 Information holding will be excluded from reporting wholesale, an example of this would be the non-reporting of 118 Information Post Offices as the Royal Mail holding would be used instead.

A small number of businesses decline to be held on the 118 Information database (for a variety of reasons).

Churn within the 118 Information supply is quite large and tends not to be restricted to any geographical area.

Other information about the businesses is available from 118 Information including phone numbers, which can be reported within the PointX product for certain types of customer.

As all geocodes for these records have to be derived by PointX there will be a percentage that are not located to the exact address or location.

- A provenance for total Great Britain coverage of general trade and business data within PointX.

## Local Data Company (LDC)

This source of Business Data was partially implemented for the June 2011 release. In subsequent releases more data was made available for potential reporting until the March 2012 release when potentially all data was. However as only certain customer types are contractually allowed to take data from this source it has been ranked below all other provenances where possible.

LDC collect business information by both walking streets and ringing up chains of businesses. Thus, in an area where they have walked every business will be included in the supply of data received by PointX however in other areas only those businesses that are deemed to be part of a chain will be included.

LDC survey each of 500,000 retail premises twice a year (this is across the year and not on the same date!) and analyse and sell the data as a service. Although they collect a number of attributes for each record (including images) there is no geocode so PointX has to assign geocodes to all records. This means that some records don't get accurate enough geocodes to allow them to report in PointX.

LDC records are classified at a granular level however their view of the business activity carried out at a location can differ from that of another PointX data supplier. This means that a record can be reported at least twice, from LDC and other suppliers. A good example of this is where 118 Information may report a location as a Charitable Organisation whilst LDC might report it as a Charity Shop. As it is quite possible that both activities are validly being carried out from the location the de-duplication has been configured to allow both to co-exist and report.

Because there is a large overlap with other data supplies that PointX uses not all LDC data is required. Thus, Post Offices and a number of Medical and Educational records for example from LDC are not loaded.

Because of the ranking that has been used, LDC records will normally not report where they co-exist with a similarly named and classified record from another supplier.

As LDC data includes a lot of churn a monthly supply is received of which every third one is processed. This will be incorporated into the PointX database within 3 months of receipt. The LDC supply is intended to plug gaps within the trade holding primarily in the larger towns and cities that they cover.

- A provenance to supplement business premises especially in larger towns and cities.

## Fuel Station Data

### Experian

This dataset was previously known as Catalist now known as Experian. Covering all of Great Britain Experian is the authoritative source of information on Fuel Stations/Petrol forecourts. This dataset is collected by field survey and is well maintained as sale of the data to third parties is the driver for it. Currently over 8,000 records are received for Great Britain (Experian also hold records for the Isle of Man and Northern Ireland) all of which hold detailed information on each site. Experian holds much more information on each site, such as Fuel prices or types, than PointX needs to report. PointX also removes from reporting any sites that are under development or known to be closed so that only current sites should be reported.

Although Experian do provide geocodes for records these are not always as accurate as PointX would like so all records are geocoded by PointX. It is worth noting that certain PointX customer types are contractually excluded from receiving this data provenance.

All records are reported in the "Petrol and Fuel Stations" class (10540737) in the Road and Rail category of the Transport Group and as churn is expected to be reasonably high, updates are undertaken for each PointX release.

A provenance for total Great Britain coverage of Fuel Station data within PointX.

As Experian also provide information on the presence of Car Washes and any store located on the Fuel Station site it has been possible from the September 2010 release to include this information in PointX. Any Car Washes (almost 4,300) will be reported in class 02100183 "Vehicle Cleaning Services" whilst any shop element (around 7,500 of which just over 6,700 get through after de-duplication with other suppliers) will be primarily reported within class 09470699 "Convenience Stores and Independent Supermarkets" or for Co-ops in 09470819 "Supermarket Chains". Previously all Experian instances on a site would have been reported within the same TOID and generally this will be the Shop building. Although Car Washes might in reality be represented by a different TOID these will be within the same site and very close to the reported TOID. From late 2012 PointX has managed to load and process the Car Washes and Convenience Stores as separate data streams and it has been possible to report more specific geocodes for many of the Car Washes, especially, within a site.



## PointX Collated Trade Entries

The following dataset has been processed by PointX but will be reported with the Provenance shown in bold.

### National Coastwatch Institution

This charitable, voluntary organisation operates stations along the coast of England and Wales. These stations assist in the protection and preservation of life at sea and around the coastline with the volunteers manning the stations keeping both a visual and audible watch.

As the function is safety at sea all records are being reported within the Coastal Safety class of the Central and Local Government category of the Public Infrastructure group (06330407).

This holding is believed to be comprehensive although there will be a slight delay for inclusion of any new stations that come into effect.

### Ordnance Survey AddressBase Core

AddressBase Core contains current properties including addresses sourced from local authorities, Ordnance Survey and Royal Mail, all provided with an UPRN (Unique Property Reference Number). The product itself also includes objects without postal addresses and live records captured by Local Authorities but not matched to Royal Mail PAF data. The product enables the end-user to locate an address or property on a map using either X, Y coordinates supplied on a British National grid or Latitude and Longitude coordinates provided on an ETRS89 projection. The product also includes cross references to OS MasterMap products via OS MasterMap Topography Layer and OS Highways USRN references.

PointX have extracted selected elements of AddressBase Core to further populate specific classes that are believed to not be complete.

## PointX Collated Points of Interest Entries

Further to the "Trade" entries mentioned above a number of records are reported with a "**PointX**" provenance (see also the "PointX" provenance records derived from Land-Line®). These are records for types of information known to be missing from the Trade supplier which PointX has collated and continues to maintain.

For the June 2014 release around 160 locations of large Solar Farm installations have been loaded which are reported in class 07410534 "Energy Production". An update performed for the September 2015 release has increased this to around 800 or so instances. Information on the Department of Business, Energy & Industrial Strategy (BEIS) website was used as a starting point and further analysis and mapping used to assign geocodes. This information supplements other renewable energy sites, especially wind, that PointX reports.

## Post Offices

The Post Office provides a complete listing of Post Office information for the whole of Great Britain. PointX have processed the records to provide, where possible, structured addresses and meaningful geocodes. In a small number of cases it has not been possible to pinpoint the location referred to by the provided address and these records will not therefore be available for reporting. This is because of ambiguous, incorrect or incomplete location information being supplied.

This data is now exclusively reported within the Post Offices class of the Household, Office, Leisure and Garden category of the Retail group (09480763).

- Authoritative source of Post Offices.

# Landscape Data

The principal supplier of landscape data is the Ordnance Survey. This provider shares a common provenance for both features describing the landscape - based upon Ordnance Survey Land-Line® and its successor MasterMap®- and those describing Trigonometric points. However, an additional PointX provenance offers a number of features sourced from Land-Line®, but further researched to allow the reporting of a structured address or a more contextual feature name.

## Ordnance Survey MasterMap ®

Ordnance Survey MasterMap® is used as the basis for a wide range of primarily non postally addressable features, numbering just over 1.4 million records.

This Great Britain-wide source of data allows features as diverse as Natural Arches, Waterfalls, Lakes, Electricity Sub Stations, Letter Boxes, Lay Bys, Public Toilets, Allotment Gardens, Cemeteries, Stone Circles, Burial Mounds, Airfields, Lych Gates, Commons, Quarries, Statues, Fords, Pylons, Tennis Courts and Shooting ranges, to name but a few, to be included within PointX.

The grid reference that is assigned is usually based on the positioning of the text string denoting the feature on the "background" MasterMap® mapping, and so this may not absolutely correspond to its position on the ground. As a feature can be shown by multiple text instances it is possible for there to be duplication within this data although de-duplication exercises have been performed to minimise this. Also, as the text strings can be very variable it is very difficult to extract all valid instances, required within PointX, correctly.

Teams of surveyors continually update these detailed data, with PointX refreshing their MasterMap® data twice a year, what has been extracted is periodically de-duplicated against other data supplies where there is known to be a possible overlap. Some of the features in these snapshots could also have been out of date at the time of the snapshot as revisions were biased towards certain types of features. From the nature of the text string PointX were able to classify what type of feature the string belongs to at a very granular level.

The majority of the original Land-Line® extractions have been replaced by equivalent MasterMap® extractions, although the former is still used in cases where the data is considered unlikely to have changed (these are predominantly historical/natural features; examples include Caves, Roman Sites, Tumuli and Waterfalls).

There is no information to accompany the text string apart from its grid reference so no address details are reported other than an assigned a Geographic County and outbound postcode by PointX based upon the Easting and Northing of the feature

As the range of features extracted is so wide it is therefore not surprising that data with

this provenance may be found throughout the classification system, with particular emphasis on the Transport, Public Infrastructure, Manufacturing and Production and Attractions groups.

Only features that were believed to not significantly overlap with an alternative, definitive, bespoke supplier were extracted in an effort to minimise duplication within PointX.

- Main source of landscape features. Should be used to supplement other provenances when they are not definitive.

## **Ordnance Survey – Trigonometric Points**

This is the definitive data set of Trigonometric (Trig for short) Points across Great Britain, numbering just over 6,000 in total.

Trig points are very accurately surveyed and form the backbone from which mapping is produced in the British mapping system, so they are provided to PointX with very accurate geocodes.

Trig Points are no longer maintained, and so the supply provided in January 2003 is the last available one. Although these are not susceptible to much churn, there will be, over time, more scope for the PointX holding to not reflect the reality of this dataset. The Ordnance Survey does hold other information on the Trigonometric Points such as their height and condition. All records are held in the Attractions group, Landscape Features category in the Trigonometric Points class (03190259)

- Definitive source for this type of information.

## **PointX**

Previous data was also further intensively processed by PointX and may be reported with a "**PointX**" provenance. These have largely been replaced by the MasterMap® extractions, the remaining features are mostly historical buildings such as Castles and Museums, where they would have proved difficult to re-extract from mapping. In such instances, it has been possible to report a structured address or incorporate more context information into the name reported for a number of these records.

# Transport Infrastructure

## Department for Transport

The Department for Transport supply PointX with data from 2 databases.

The first is the **N**ational **P**ublic **T**ransport **A**ccess **N**odes database, or **NaPTAN** for short. This is being collected Nationwide for all transport access points with a Domestic destination (so will not include any access Points that are exclusively for International destinations). All of these records get reported in classes in one of the Public Transport, Stations and Infrastructure, Bus Transport or Water categories in the Transport group.

All Bus Stop and limited Taxi Rank information is available and has been loaded into PointX as well as Train Stations, Ferry points and Tram and Metro Stations/stops.

Over 360,000 Bus Stop records are exclusively reported within the existing "Bus Stops" class and over 11,000 in the "Hail and Ride Zones" class.

In the "Hail and Ride Zones" class a geocode is provided which it is believed falls within the extent of the zone. As this is a Point it obviously does not equate to all of the absolute instances within the zone where a bus can be caught however is representative of the zone as a whole.

The NaPTAN dataset is promoted as being a definitive source of Public Transport Access Nodes and is regularly updated at a local level so as to be as current and comprehensive as can be practically expected. The database has been produced by the Department for Transport for use in journey planning applications.

PointX access the NaPTAN holding on a quarterly basis in step with the current release order generation regime so as to offer the best currency data. It is the intention that each refresh should be available within PointX no later than 2 months from when it was accessed.

There is a reasonable amount of churn within this data supply.

Geocodes are provided as a part of the supply to PointX and reported by PointX as are. It is believed that these geocodes have been collected using GPS so they should be accurate to within a few meters. However, as PointX are unable to guarantee that the Toid represented by the reported geocode relates to the Bus Stop itself no Toid value or version is shown within the PointX product.

The NaPTAN dataset replaces any previously reported Train Station information sourced from Ordnance Survey Land-Line®.

Taxi Ranks - that is, Hackney Carriages - were not previously available within PointX

so those available now are reported within the "Taxi Ranks" class. The current population is incomplete and only covers certain regions currently numbering just over 860 nationwide. As NaPTAN do not have an ongoing program to collect all Taxi Ranks this holding will either need to be supplemented, given a health warning or removed as deemed appropriate.

With the volume of data being collected the odd anomalous record is to be expected, but on the whole the quality of this information appears good.

The SMS number for each Bus Stop is held within the NaPTAN database and is reported as qualifier information in PointX.

- Definitive source for types of transport access points within its main remit.

The second dataset provided by Department for Transport is one of **Car Parks**. To help with differentiation between this data and the NaPTAN one it is reported with a Provenance of "**Department for Transport (Parking)**".

Originally initiated in 2007 by the DfT, but currently via OSMM, the Car Parking collection program has progressed so the number of instances from this provider is fairly stable at over 21,500 records although this number could creep up over time. OSMM only have the cartographic text and not the carpark name.

The DfT have approached Local Authorities and commercial Car Park operators in order to produce what is hoped to be a definitive holding of car parks for Great Britain. This information is being used for transport provision, planning and analysis purposes. Records are provided with accurate geocodes which generally relate to a point centrally within the car park's extent, descriptive addresses and full specific Car Park name. It does however appear that only certain types of Car Park will be in this holding. As a few operators have not as yet provided information this source is not yet complete. PointX aims to report this source over other Car parking sources where instances coincide and will supplement this holding from other sources it has available to it. Updates of the DfT supply are no longer received – however, the data is supplemented every 6 months with an extract of Car Parks from Ordnance Survey MasterMap® mapping, cross-referenced with DfT records, and added if applicable.

## Transport for London

London Underground (Transport for London) has provided every station on the London Underground system.

The data is provided to PointX as a series of geocodes for station entrances and ticket halls.

This dataset is known to hold all London Underground Stations and entrances with their definitive names and is used by London Underground internally to represent their holdings.

It is not known how the data is collected but being sourced from the operating body is assumed to be comprehensive and accurate.

Change within the holding is likely to be very small so the data is only going to be updated annually with any changes being reflected within 2 months of receipt.

Limited other information is provided but is not reported within PointX.

Station records are reported within the Transport group, Public Transport, Stations and Infrastructure category, "Underground Network Stations" class (10570761) and the entrances in the "London Underground Entrances" class (10570794).

- Definitive source for stations and their entrances on the London Underground network.



# **Sporting Information**

## **Sports Council for Wales**

This information, on sporting facilities within Wales only, is those facilities that are registered with the Sports Council for Wales and accessible to the general public. These are typically at schools and sports centres and although obviously not comprehensive do appear to give a good representation of facilities.

There are nearly 900 activity locations which relate to over 500 facility locations however only around 700 records end up being reported in PointX.

The data is believed to be used by the council for provision of funding but their capture and maintenance methodologies are unclear.

Data is provided with a generalised grid reference and fairly poor address, neither of which can be reported without further enhancement by PointX.

Given that multiple activities may be undertaken at a given location as provided by the Sports Council, each are assigned the same grid reference.

The type of facility is well differentiated, however, and gets reported by PointX in the classes within the Sports Complex category of the Sport and Entertainment group.

Updates are received annually as the change in the data is quite small and these are implemented within 2 months of receipt. Other information regarding the facilities is held by the provider.

- Good provenance for most sporting facilities within Wales.

## **Sport Scotland**

This dataset encompassing Scotland only describes those sporting facilities that are registered with Sport Scotland and are accessible to the general public. Again, these are typically schools and sports centres.

There are over 10,000 activity locations which relate to around 6,000 facility locations - these are not absolutely comprehensive but appear to be almost so. The data is believed to be used for provision of funding, but their capture and maintenance methodologies are unclear. The data does appear to be better maintained than that for the Sports Council for Wales.

Although reasonable grid references are supplied, these are not always present or of sufficient quality for use within PointX, around 6,600 instances get reported, so these are derived based on the location (again all facilities at that location should have the same grid reference assigned by PointX). Supplied address information is also inconsistent so is enhanced by PointX where possible.

The supplied classification is very granular and all records with this provenance will be reported in classes within the Sports Complex category of the Sport and Entertainment group.

Updates are received annually as the change in the data is quite small and these should appear within the PointX database within 2 months of receipt.

Other information on the facilities is held by the provider.

- Good provenance for most sporting facilities within Scotland.

## **Service Area Information**

The following provenances supply information on service areas which have been used to populate the Restaurants class (01020043) of the Eating and Drinking category in the Accommodation, Eating and Drinking group. It should be noted that the more generic Motorway Service Stations class (10540735) is populated using the PointX provenance mentioned earlier.

Updates tend to contain few changes, are received annually and are incorporated into the PointX database within 2 months of receipt.

All of the providers hold additional information on the sites and these include phone numbers and managers names.

No grid references are supplied, and the raw addresses are not always absolutely correct and so both are enhanced by PointX. The data is held by the suppliers to help them manage their holdings and can be taken as being definitive for each brand concerned. It is believed that these constitute the majority of instances for such features, viewed primarily as roadside eateries.

### **Moto**

This is information on all (just over 50) of the Moto Motorway Service area establishments throughout Great Britain.

### **Welcome Break Group Ltd**

This is information on all (currently just over 30) of the Welcome Break Motorway Service area establishments throughout Great Britain.

### **RoadChef Motorways Ltd**

This is information on all (currently just over 25) of the Roadchef Motorway Service area establishments throughout Great Britain.

## **Court Information**

There are 2 niche suppliers of court information which are updated annually as the amount of change within the data is small.

Information is incorporated into the PointX database within 2 months of receipt.

The vast majority of data sets get reported in the Courts, Court Services and Tribunals class (06330409) although a few records from The Court Service are included within the Solicitors, Advocates and Notaries Public class (02090154); the former class falls within the Central and Local Government category of the Public Infrastructure group, whilst the latter within the Legal and Financial category of the Commercial Services group.

The suppliers hold other information on the courts.

PointX both enhances the supplied address information and determines a grid reference for each record.

### **Scottish Court Service**

The Scottish Court service provides almost 50 records covering the courts in Scotland only. This is data used on the Scottish Courts website and is comprehensive.

- Good provenance for courts within Scotland.

### **The Court Service**

The Court Service supply information on over 300 Crown and County courts from throughout England and Wales and over 200 Magistrates courts. Also included is a mix of other information (Immigration Appellate Authority, Tribunal and Probate Registry locations) from across the whole of Great Britain. This data is used on the Court Service website. Any coincident 118 Information Crown Court instances will report over those entries from the Court Service so just over 450 instances end up being reported from this provenance.

- Good provenance for Crown and County courts in England and Wales.

## Attraction Information

There are a series of suppliers of attraction information with the trade suppliers and PointX also supplying some attraction information.

### Historic Houses

The Historic Houses Association supplies a complete listing of the over 1,000 properties from across Great Britain that are open to its members and the paying public. Information is provided both as a booklet and on their website and these are used annually for updates as the data is fairly static. Much additional information about each of the properties is also held.

As the grid references provided are not suitable for reporting within PointX these are generated along with structured addresses, where possible.

Detailed descriptions and keys as to the type of facility allow records to be mapped at a granular level to classes within the Botanical and Zoological and Historical and Cultural categories within the Attractions group.

Information is incorporated into the PointX database within 2 months of receipt.

- Definitive source of information for this organisation's membership however not a comprehensive holding of Heritage type properties.

## **Association of Scottish Visitor Attractions**

This is a listing of all of the Association of Scottish Visitor Attractions members, currently numbering over 450 although as some are duplicated by other supplies the number getting reported from this source in PointX is just over 200.

These are primarily tourist attractions, from throughout Scotland, that are reported in classes across the Attractions group, although there are also other classes represented such as Business-related Consultants (02040064) and Gymnasiums, Sports Halls and Leisure Centres (04240293).

All records have to be mapped to a PointX class manually using the name of the feature as a guide as no supplier classification is provided.

Other details are held by the supplier such as contact names and telephone numbers.

Change in the data is small so updates are only processed annually and these will be in the PointX database within 2 months of receipt.

PointX both enhances the supplied address information and determines a grid reference.

- Useful provenance for attractions within Scotland but not definitive.

## **National Trust for Scotland**

This supply is a complete listing of the nearly 100 properties and land holdings from across Scotland open to the National Trust for Scotland membership and to the paying public.

The information is used in the National Trust for Scotland membership booklet and website and a lot of additional information on the entries is also supplied but not reported.

Provided location information tends to be descriptive and with some entries being land holdings, including groups of islands, it is difficult to geocode all records supplied accurately.

As the data holding does not change much an annual update is performed and this will be in the PointX database within a month of receipt. Records are individually classified by PointX, as no supplier classification is supplied. These are all currently to classes within the Botanical and Zoological, Historical and Cultural and Landscape Features categories within the Attractions group.

National Trust for Scotland properties may also be supplied by Trade suppliers and these instances can be reported in preference so care should be taken if Provenance is used to produce a definitive holding.

- Definitive provenance for this organisation's holding but again not comprehensive for heritage type locations in Scotland.

## Royal Society for the Protection of Birds

The Royal Society for the Protection of Birds (RSPB) provides information on the over 180 bird reserves that this wildlife conservation charity maintains across Great Britain.

The information is used to produce a members booklet and for use in the RSPB website and a lot of additional information is available for each reserve which is not reported by PointX.

All records are reported in the Bird Reserves, Collections and Sanctuaries class (03160232) in the Botanical and Zoological category of the Attractions group.

Polygons were supplied to PointX which were then converted to a representative grid reference, assigned, where possible, to the reserve's visitor centre or car park or, failing that, centrally within the site.

Because this data set is very static updates are only being performed annually and should be reflected in the PointX database within 2 months of receipt.

- Definitive provenance for this organisation's holding but not comprehensive for all Bird Reserves and Sanctuaries.

## Open Plaques

Open Plaques is a community-based project started in 2009 which documents and promotes commemorative plaques with a remit to get the information widely distributed and re-used. Within Great Britain the initial extraction returned almost 9,000 instances.

Reported plaques typically commemorate people or events to a specific location with any that are general and not denoting anything specific or relate to people or events with no connection to the vicinity of the plaque, being excluded. More information can be found on their website at [www.openplaques.org](http://www.openplaques.org)

The March 2015 PointX release was the first to include Open Plaques and as there are no believed duplicates within this holding, or any overlap with other existing suppliers, all positional accuracies get reported. Records are only reported in the "Unspecified and Other Attractions" class 03200269 and the type of plaque if known, or "Not Specified" if not, is reported in the "Qualifier Data" field. The initial release erred on the side of caution as to how accurate the supplied geocodes were until we were able to validate them although many are actually very good. Ongoing it is the intention to improve the grids and better structure the reported addresses as time allows and subsequent releases have achieved this.

Definitive single provenance for commemorative Plaques

## **National Association of Citizens Advice Bureaux**

This information covers the over 1,500 National Association of Citizens Advice Bureaux locations from across England and Wales although only just over half of these end up getting reported from this provenance in the PointX product.

The Organisation does not appear to have any centres in Scotland. Information is used in the National Association of Citizens Advice Bureaux website and other details are held on each of the offices, but not reported within PointX.

All of the records that get reported are in the Counselling and Advice Services class (05290358) in the Health Support Services category of the Education and Health group.

As the centres are usually quite distinctive it has been possible to allocate accurate grid references and structured addresses to the vast majority of records.

Change in the data holding is quite small so updates are only performed annually – with them appearing in the PointX database within 2 months.

- Definitive provenance for this organisation's holding.



## **Driver and Vehicle Standards Agency**

This supply of information covers both Practical and Theory Driving Test Centres. There are nearly 150 Theory centres nationwide and over 300 practical test centres. Practical test centres are broken down into type with the overwhelming majority being ordinary practical test centres although there are odd Long Goods Vehicle and MoD practical test centres provided as well. From the December 2012 release the Test Centre Type will be shown as Qualifier information.

All records from this provenance will be reported in the Driving Test Centres class (06330411) in the Central and Local Government category of the Public Infrastructure group.

It has been possible to allocate accurate grid references and structured addresses to nearly all of the provided records. As a centre is often likely to perform both a practical and a theory test function in many instances, and within the current classification system in place no differentiation is made between the two types, de-duplication is enforced so that only a single record will be reported at each location.

The holding is believed to be used by the Driver and Vehicle Standards Agency both for internal management and public service provision purposes.

Update supplies are received on a six-monthly basis and will be reflected within the PointX database within 2 months of receipt.

- Definitive holding of this type of information within Great Britain.

## RenewableUK

RenewableUK, previously known as The British Wind Energy Association (BWEA) is the trade and Professional body for the UK wind and marine renewables industries. Their UK Wind Energy Database (UKWED) is the most definitive database on wind energy projects in the UK. PointX is reporting Turbines where they are known to have been built and their location verified and Wind Farms where a site can be identified. Should a site only be at the planning or consented stage then PointX will not include it.

Nationwide there are now well over 450 sites and over 4,400 individual turbines although these numbers are increasing year on year. Not all of these end up being reported however all records from this provenance that do will be reported in the Energy Production class (07410534) in the Industrial Features category of the Manufacturing and Production group.

All reported records will have meaningful grid references with Turbines being absolute whilst sites will be at a reasonably central location. Turbines and sites will co-exist where both have been identified. Individual turbines will have the name of the site followed by "Turbine" whilst those instances relating just to the site itself will just report the site name.

The database is believed to be used by the BWEA both for internal management and public promotion and education purposes.

Update supplies are received on a three monthly basis and will be reflected within the PointX database within 2 months of receipt.

- Definitive holding of this type of information within Great Britain.

## PayPoint

This dataset has just over 26,000 entries of which over 25,500 cover Great Britain. The records relate to locations where payment of bills and services and prepayments for mobile telephones and energy meters can be made.

All records from this provenance are reported in the "PayPoint Locations" class (02090811) in the Legal and Financial category of the Commercial Services group.

PayPoint provide grid references which PointX report although as a few could be improved upon PointX are doing this where practical. As a payment site is often likely to perform a wider retail or service function efforts have been made to prevent removal of PayPoint records, where possible, although odd instances have been removed as they appear to be duplicates in the raw supply.

The holding is believed to be used by PayPoint both for internal management and marketing purposes.

Update supplies are received on a three monthly basis and will be reflected within the PointX database within 2 months of receipt.

- Definitive holding of this type of information within Great Britain.

## Emergency Services Information

PointX is supplied with information from each of the emergency services for Ambulance, Fire Brigade and Police stations. This numbers around 150 suppliers in all and each authority, brigade, service or constabulary will cover a specific area and be mutually exclusive for the type of emergency service being reported. These suppliers combined should be definitive for this type of information and cover all of Great Britain.

The number of records from individual suppliers will vary depending on their coverage from a handful to over a hundred. In total there are just over 1,100 Ambulance stations, just under 2,000 Fire stations and just over 1,500 Police stations reported.

Ambulance stations are reported in the Ambulance Services class (05290356) of the Health Support Services category within the Education and Health group, Fire stations in the Fire Brigade Stations class (06330414) and Police Stations within the Police Stations class (06330422) both classes falling in the Central and Local Government category within the Public Infrastructure group.

Each of the providers of information will hold additional information on the stations and the data is held for public information purposes.

Provenances include **Avon & Somerset Constabulary**, **Scottish Fire and Rescue Service** and **East of England Ambulance Service** to name but three.

PointX both enhances the supplied address information and determines a grid reference.

- Combined provenances produce a definitive source for this type of information.

# WiFi Hotspots

## BT Openzone, O2 Limited and The Cloud

These 3 suppliers provide instances of WiFi enabled locations from across Great Britain that they operate. These range from cafes, hotels, sports facilities and offices to payphones. First supplied only by BT Openzone for the March 2008 release, when there were just over 10,000 instances, the supply is now split between the 3 suppliers with BT Openzone reporting almost 7,000 instances, O2 Limited over 4,500 and The Cloud over 21,000.

Different service providers are included in the data and features will be reported with names that incorporate this in the format of "Wi-Fi Hotspot (*Service Provider*)" where *Service Provider* will be "The Cloud", "BT Openzone", "O2 Limited" as appropriate.

The BT Openzone, O2 Limited and The Cloud data is used to exclusively populate the WiFi Hotspots class (06340802) in the Infrastructure and Facilities category within the Public Infrastructure group. This is believed to encompass the major networks and is, therefore, reasonably complete.

Information is sourced either from websites or email updates and is used to promote WiFi as a facility by these providers. It is updated within PointX on a quarterly basis where we are able to get updates from each supplier.

PointX is able to allocate structured addresses for many instances although duplicates in the supply have been removed on receipt and those relating to mobile locations eg on a train have not been captured.

As we believe duplicates have been removed and no other supplier of such information is used any PointX supply configured to include WiFi hotspots can report Street or Locality level positional accuracies for them in it.

- Only provenances for this type of information.

# Cash Machines

## VocaLink

This is a supply of over 48,000 Automatic Teller Machines ("ATM") or cash machine locations covering all of Great Britain and is received by VocaLink from the various members in their network.

It is believed that there are a few ATM's not on the VocaLink network. However, this source is the most comprehensive available, with the majority of ATMs being present.

As there are various contributors of information to VocaLink the quality of data provided to PointX does vary considerably depending on the original source. However, VocaLink makes every effort to standardise and raise the quality of their data.

It also appears that in rare instances two different members operate and can provide information on the same ATM to VocaLink.

ATM information from VocaLink is received on a bi-annual basis and will appear in the PointX database within 2 months of being received.

Potentially obsolete records could be included as although monitoring of ATM usage is carried out, they often fall within buildings subject to refurbishment with ensuing barring of access to the public for periods of time and so this is not used as a reason to remove records.

Although no grid references are provided the addresses supplied are generally of a high enough quality to allow the ATM to be located to the correct building.

ATMs are similar to payphones in nature, in that they often occur in groups and can be situated within buildings. PointX has processed the ATMs in a similar manner, allocating the same grid reference where possible to each machine in a grouping – this geocode is often at the building level of the building within which the ATM is situated.

The name reported is now of the format "Cash Machine (Institution)". The "Institution" part is the name of the organisation running this part of the VocaLink network.

VocaLink also holds additional information for each ATM including, amongst other things, Public accessibility which gets reported as Qualifier information by PointX.

All ATM data provided by VocaLink is reported in the Cash Machines class (02090141) of the Legal and Financial category within the Commercial Services group.

VocaLink data has to be removed from any PointX supply to companies on the VocaLink house accounts list, unless express permission to supply it is agreed.

From December 2004 onwards any PointX supply configured to include cash machines can report Street or Locality level positional accuracies ensuring all ATM's get reported.

- Required provenance for this type of information but not completely comprehensive.

# Health Information

## NHS Choices

This is the provenance that is reported for NHS instances of Parenting and Childcare Services and a few Counselling and Advice Services and Charitable Organisations, classes 05280809, 05290358 and 06350816 in England.

## Wilmington Healthcare Ltd.

Formerly known as Beechwood House Publishing Ltd, and possibly even better known by their Binley's brand name, Wilmington Healthcare Ltd. provides information on health related facilities.

Their supply includes Hospitals, Clinics, Health Centres, Medical and Laboratory Pharmaceutical wholesalers, Chemists and Pharmacies, Dentists, Doctors Surgeries and Health Authorities. Coverage does not include individual doctors although these can often be supplied alongside the practice name.

As a bespoke supplier of this type of information it is believed to be comprehensive with over 50,000 records covering the whole of Great Britain. Preferred Supplier implementation means that where a record from this supply would previously have been masked from reporting by a Trade Supplier record that it will now be reported in preference although some records are de-duplicated within the supply itself.

The data is actively maintained and sold as a service by Wilmington Healthcare Ltd. and they hold extra information on the facilities concerned. Telephone number information can be provided for records from this provenance.

The provided addresses can vary in quality. However, as the features being reported are often distinctive, it has been possible for PointX to geocode the majority accurately and to provide structured addresses for most records.

Often, individual departments within a hospital are provided with the same locational identifier. In such instances, records are geocoded by PointX to a central location and all such departments within a hospital will be de-duplicated. The only exception to this is to allow Hospitals to report as both a general Hospital and an Accident and Emergency facility when both functions are present.

It is worth bearing in mind that departments being deduplicated may also include in-hospital pharmacies, so a full complete set of Pharmacies may not be available within PointX. It is assumed that Hospitals have Pharmacies, so these need to be considered when trying to see a complete picture of Pharmacies across GB.

Care Homes from Wilmington Healthcare Ltd can be classed either as Hospices, Care Homes, or as Central Office Headquarters (PointX Class 02100167). When



understanding the complete supply of Care Homes, these classes need to be queried in unison.

Records are primarily reported in the classes within the Health Practitioners and Establishments category in the Education and Health group.

There is a reasonable amount of churn within the data so updates are processed quarterly and will appear in the PointX database within 2 months of receipt.

- Preferred provenance for most types of health facilities, believed to be reasonably comprehensive.

## Education Information

### DfES

This is actually sourced from the government bodies responsible for education provision in Great Britain – National Assembly for Wales, DfES and the Scottish Executive. The reported provenances will be “**Welsh Assembly Government**” for records in Wales, “**Edubase**” for those in England and “**Information and Analytical Services Division – Education Department**” for those in Scotland.

Totalling around 29,000 records this is the authoritative source of compulsory school age educational establishments, being as it is produced and maintained by the relevant education authority for reporting on, and provision of, educational activities.

The first release of PointX to contain this data was the September 2007 one and updates are expected to be processed on an annual basis.

Raw information from these suppliers is generally good although some addresses do need to be tidied up. A lot of further information is held by DfES on features however this is either not received, or is not used, by PointX.

Records will primarily be reported in the Primary, Secondary and Tertiary Education category with some also in the Education Support Services category.

- Preferred supplier for compulsory school age educational establishments.

# Foodbanks

## Give Food

Givefood.org.uk became a charity in 2020, and their remit is to provide networking and information on Foodbanks across GB. They aim to help local organisations address the immediate and critical need created by food insecurity, but also provide data on the locations of Foodbanks on a nationwide basis.

Give Food do not necessarily have all Foodbanks available; there are many unofficial or independent Foodbanks operating on a local level. However, Give Food do provide data for over 500 Foodbanks; and these are often difficult to source from our retail and commercial data suppliers.

The first release of PointX to contain this data was September 2020 and updates are expected to be processed on a quarterly basis.

Raw information from these suppliers is generally good although some addresses do need to be tidied up, as well as re-geocoding all features due to locational inaccuracy.

These features will be reported in the Charitable Organisations class (06350816) with Qualifier information identifying Foodbanks, and will be preferred over any other supplier during the deduplication process.

# Customer Feedback – Potentially All Data Types

## PointX

This PointX Collated Points of Interest holding is being built up over time to hold information requiring reporting as a result of customer feedback.

To date, when customer feedback is received by PointX, the information provided can be implemented in a limited number of ways.

It might have been that non-reported information was actually held but at a sufficiently poor positional accuracy so as to preclude inclusion within the product. In such cases, feedback information utilising local knowledge could allow sufficient positional accuracy improvement to allow subsequent inclusion.

If a feature was missed - that is, missing from an existing data provider's supply but was felt that it probably should have been included - the supplier would be informed of the omission and the record could then be received in subsequent supplies.

Alternatively, in some instances, if text was available within Land-Line® that could be used to identify the missing feature, then a record with a PointX Land-Line® provenance could be generated.

However, for certain non-reported instances, either as a consequence of the PointX de-duplication routines (despite the fact that the feature may possess sufficiently good positional accuracy) or the lack of an existing mechanism to enable the generation of a record may conspire to make ultimate inclusion within the product difficult.

This provenance is intended to allow feature reporting from either scenario. The number of records allocated to this provenance depends upon both the level and type of customer feedback that is received. Such feature generation fully exploits the local knowledge that some PointX customers are undoubtedly able to offer.

This dataset can additionally be populated by the results of any missing entity identification that PointX themselves are able to perform, with the research required for feature creation being undertaken in-house.

Records reported bearing this provenance have the potential to be drawn from across the complete spectrum of the PointX classification system, although initial entries are concentrated primarily from within the Accommodation, Eating and Drinking, Attractions, Commercial Services, Retail and Transport groups.

### 3.Overlaps

As can be seen from the brief backgrounds on each provenance given above there are ones that either do not overlap at all or do so to a lesser or greater degree. Some of these overlaps are at a class resolution whilst others are nearer the data set level. Obviously, there is some overlap between Trade Suppliers and more niche suppliers of information in the Health and Education areas especially but there can also be regional overlaps so for instance Golf courses can be duplicated nationally between 118 Information and regionally with Sport Scotland and Sports Council for Wales.

This is also true at a PointX class level, where Books and Maps (09480674) can be supplied by 118 Information, LDC and The Education Company. Historic Buildings Including Castles, Forts and Abbeys (03170244) can be supplied by National Trust for Scotland, 118 Information, Historic Houses Association, Association of Scottish Visitor Attractions, PointX and Ordnance Survey. As this last example includes both different types of Historic Buildings and regional provenances the overlaps will vary considerably.

Within PointX data reporting of duplicates has been minimised however as a result many - and potentially, in some cases, all - of a provenance cannot be included.