ORDNANCE SURVEY GB

POINTS OF INTEREST
PRODUCT INFORMATION

Version history

Version	Date	Description
4.0	09/2019	Specification change
4.1	12/2020	Specification change – Removal of verified address
4.2	08/2021	Specification change – Removal of provenance categories and media format

Purpose of this document

This document provides information about and insight into the Points of Interest product and its potential applications. For information on the contents and structure of Points of Interest, please refer to the Technical Specification.

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

We may change the information in this document at any time, giving you the notice period set out in your contract. We do not accept responsibility for the content of any third-party websites referenced or accessed in or through this document.

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Contact details

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

Contents

1. Introduction

This product information document describes the main features of the product, suggests how customers can use the data and explains how the data is supplied. Everyone reading this document will gain an understanding of the key concepts of the data and the benefits an organisation can obtain from using it within location-based applications.

The Points of Interest product is a comprehensive location-based directory of all public and privately-owned businesses, educational institutions and leisure services in Britain. It contains over four million records, sourced and quality-checked from over a hundred leading listing suppliers. It's updated four times a year, so you'll always be working with current information.

For the public sector, Points of Interest lets you identify gaps in services and analyse changes in city centre retail space over time. This helps you to maintain a quality environment for residents, shoppers and visitors.

With Points of Interest, you can:

- Identify places by their use and function as well as their postal address or location. Each record also contains a telephone number, web address and brand, where appropriate.

- See commercial addresses for organisations across Great Britain, including phone numbers and web URLs for major. Over 45% of Points of Interest records are businesses.

- Use the detailed company classifications linked to addresses to conduct detailed competitor and site analysis for the potential location of your next high street outlet.

- Access information on the following themes: accommodation, eating and drinking, commercial services, attractions, sport and entertainment, education and health, public infrastructure, manufacturing and production, retail, transport.

Media formats

Points of Interest customer orders are currently supplied via a Secure URL. The current size of a full supply is about 1 Gb.

Glossary

Please refer to Annex D: Glossary as you work through this document.

Feedback

Ordnance Survey welcomes all feedback. If you have any comments or require further information, please make contact using the details above.

2.   About Points of Interest

The Points of Interest product is a comprehensive location-based directory of all public and privately owned businesses, educational institutions and leisure services in Great Britain. It contains over four million records, which are sourced and quality-checked from over a hundred leading listing suppliers. It's updated four times a year, so you'll always be working with current information.

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You can:

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- See commercial addresses for organisations across Great Britain, including phone numbers and web URLs for major businesses. Over 45% of Points of Interest records are businesses.

- Use the detailed company classifications linked to addresses to conduct detailed competitor and site analysis to help you identify the potential location of your next high street outlet.

- Access information on the following themes: accommodation, eating and drinking, commercial services, attractions, sport and entertainment, education and health, public infrastructure, manufacturing and production, retail and transport.

As each feature is provided with a national grid coordinate, it can be visualised as points on a map using a geographical information system (GIS).

Common applications for which customers are already using Points of Interest include:

- Citizen information services
- Distribution and provision of facilities and infrastructure
- Emergency planning
- Location-based services
- Tourism

Each feature comes with a set of attributions that can be manipulated and analysed within a GIS or database so that customers can customise the data and learn more about the facilities within their chosen geographic areas.

2.1   Roles and responsibilities

Points of Interest is created and maintained by PointX, an independent company in the joint ownership of Ordnance Survey and Landmark Information Group. Ordnance Survey is the sole 'data only' distributor for Points of Interest.

PointX collects data from around 140 suppliers, including Ordnance Survey. It receives updates from these suppliers on an ongoing basis. The suppliers are chosen for being the most authoritative source for the particular type of feature they supply, and for the quality and completeness of their data. It should be noted however, that for many types of features there are no absolute definitive source, nor can any list of the types of features found in Points of Interest be said to be complete. Points of Interest therefore comes with

a number of indicators as to the likely currency and positional accuracy of any given set, which should be taken into consideration when using the data.

PointX runs verification checks, provides National Grid coordinates, and classifies each feature. The data is sent quarterly to Ordnance Survey who distributes it to customers. Ordnance Survey manages the customer relationship.

The suppliers are responsible for providing the data to PointX in a manner and timescale agreed between them.

3.   Using Points of Interest

The primary use of Points of Interest is to allow identification of different facilities, resources or functions within the built and natural environment.

The data can be used within a table format, such as a spreadsheet or a database, to create gazetteer or list type applications that allow people to search for a particular facility or resource. These applications make use of the attributes supplied for each feature and depend on the application system having a searching or querying facility that the customer can supply with search criteria.

To achieve the greatest possible value from the data, it is best viewed and analysed within a GIS. The combination of Points of Interest with topographic mapping gives context to the features, which cannot be derived from using it within a table or spreadsheet. Depending on the functionality of the GIS, it also provides the opportunity to:

- Group the features into other subsets of data.
- Combine the data with your own complementary datasets or with other Ordnance Survey products.
- Customise the appearance of the Points of Interest features to suit your requirements (Ordnance Survey provides a suggested set of symbols, available from the product support page, to get customers started).
- Extend the queries on the attributes by using a spatial element.

3.1   Viewing the data

Points of Interest can be displayed within a GIS by using the Easting and Northing coordinates to display each feature's geographic location as a point. The National Grid coordinates that accompany each feature allows it to be displayed as a point, in its correct position with regards to the National Grid and any other map based on the same reference system.

The simplest way to display the product is to render all points with a single colour and shape, as shown in Figure 1, below. These can then be labelled with the classification code to understand what each point represents. By providing the context of the physical environment within which the Points of Interest features exist can add another dimension of meaning to the data. It allows a spatial understanding of the features to develop.

Points of Interest is completely customisable in terms of the way you choose to symbolise the points. The way in which the data appears on a screen is likely to be a combination of your wishes and the functionality of the system being used to display the points.
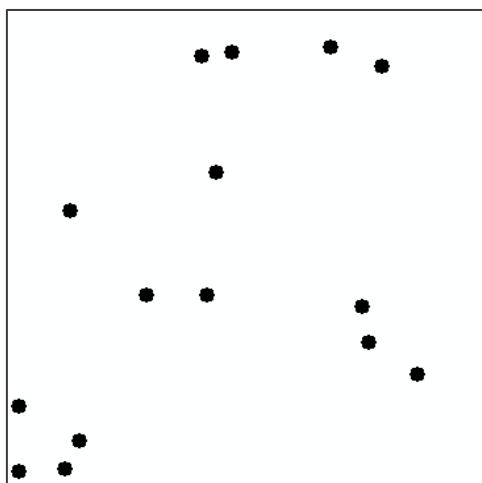
Figure 1: Points of Interest rendered with a single and simple symbology
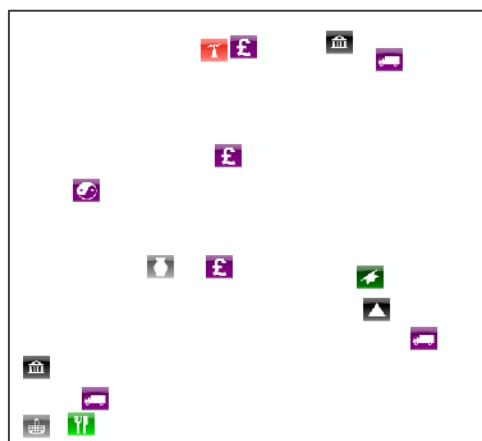
Figure 2: Points of Interest rendered with category symbology

3.2   Styling the data

Most GIS have tools that provide options for rendering data on screen. Ordnance Survey has developed sets of symbols to use with the Points of Interest dataset so that customers can render the data very quickly. These are available to download from the product support page.

Using a symbol set that makes use of Category level of classification means that the viewer can understand the information quickly. Comparing Figure 1 with Figure 2, which shows Points of Interest data rendered with a set of the supplied symbols, it is possible to get an idea of the range and type of features that are in this area without querying the attribution.

The symbol sets are supplied in:

* Black and white bitmaps
* Colour bitmaps
* TrueType font

Refer to Annex B for the colour symbols. Table 2 illustrates the colour symbols used for each of the 52 Categories. Table 3 illustrates the additional colour symbols used for certain Classes. The symbols can be downloaded from Ordnance Survey's website.

3.3 Backdrop mapping

The real benefits of Points of Interest within a GIS can be seen when displaying the features over some backdrop mapping. This adds real-world context to the features. Points of Interest features are best used in combination with a large-scale product such as OS VectorMap Local, an example of which is used in Figure 3 below. This allows both clarity and the ability to derive additional value from both products. A slightly smaller scale backdrop, such as OS VectorMap District, can also provide the necessary context. An example is shown in Figure 4 below.
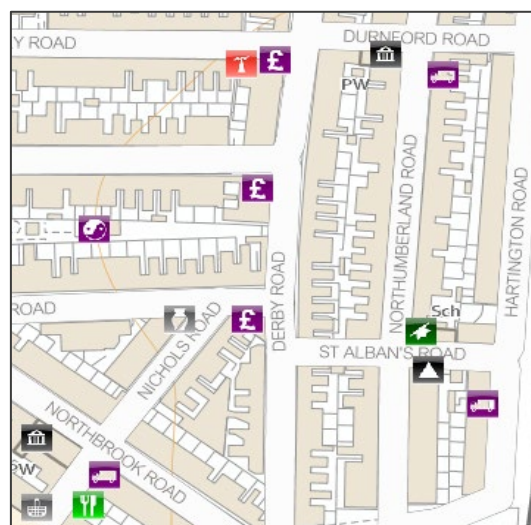
Figure 3: Points of Interest over OS VectorMap Local (1:3,000)

Figure 4: Points of Interest over VectorMap District (1:10,000)

Whilst it is possible to view the data at any scale, the smaller the scale, the harder it is to see what real-world feature the point represents. There are problems of points either being difficult to distinguish from each other or, if they are set to enlarge as the map is zoomed out, they can disappear behind each other, as shown in Figure 4.

4.   Classification

Classification provides structure to the data which helps when storing it. It provides a way of ordering the data, a means of visualising it, and a way for customers to find the features they are interested in quickly.

Points of Interest has its own classification scheme with each feature assigned to a Class within the system. The classification is central to the Points of Interest dataset as it provides a hierarchical structure to the data that makes it efficient to store in a computer system and easier to search. It also provides a means of subdividing the data so that customers can order only the features they want.

The classification was created by PointX. It is designed to be comprehensive, intuitive and easy to use. It provides the necessary level of detail to be useful and flexible without being so complex that it becomes difficult to use the product in applications. There are three levels of classification: Group, Category and Class.

Level 1 comprises nine Groups and provides the broadest categorisation.

Level 2 comprises 52 Categories which are broken down into more than 600 Classes to form the third level of the classification scheme. This is the most specific level of classification. The full classification is given in Annex A. Over the life of the product, some Classes have been changed, added or merged with other classes, which is why numbers are not sequential.

Having three levels of classification enables customers to make general searches. For example, at the Group level, education and health, specific searches at the Category level, such as primary, secondary and tertiary education, or specialist searches, such as special schools and colleges, at the Class level.

You can order Points of Interest at either the Group or the Category level. Features are allocated a classification based on either:

•   A classification provided by the original data supplier.

•   Where no classification is provided, PointX uses its experience and understanding of the dataset itself, or elements within it, to allocate a classification.

Classifications make it easy to use database or GIS tools to search, analyse and display features based on their Class. When used in conjunction with the attribution, it is possible to compile, for instance, a list of the names and addresses of estate agents within a given geographic area. In Figure 5 below, the classification has been utilised to display all *Bus Stops* within an area using the classification code 10590732.
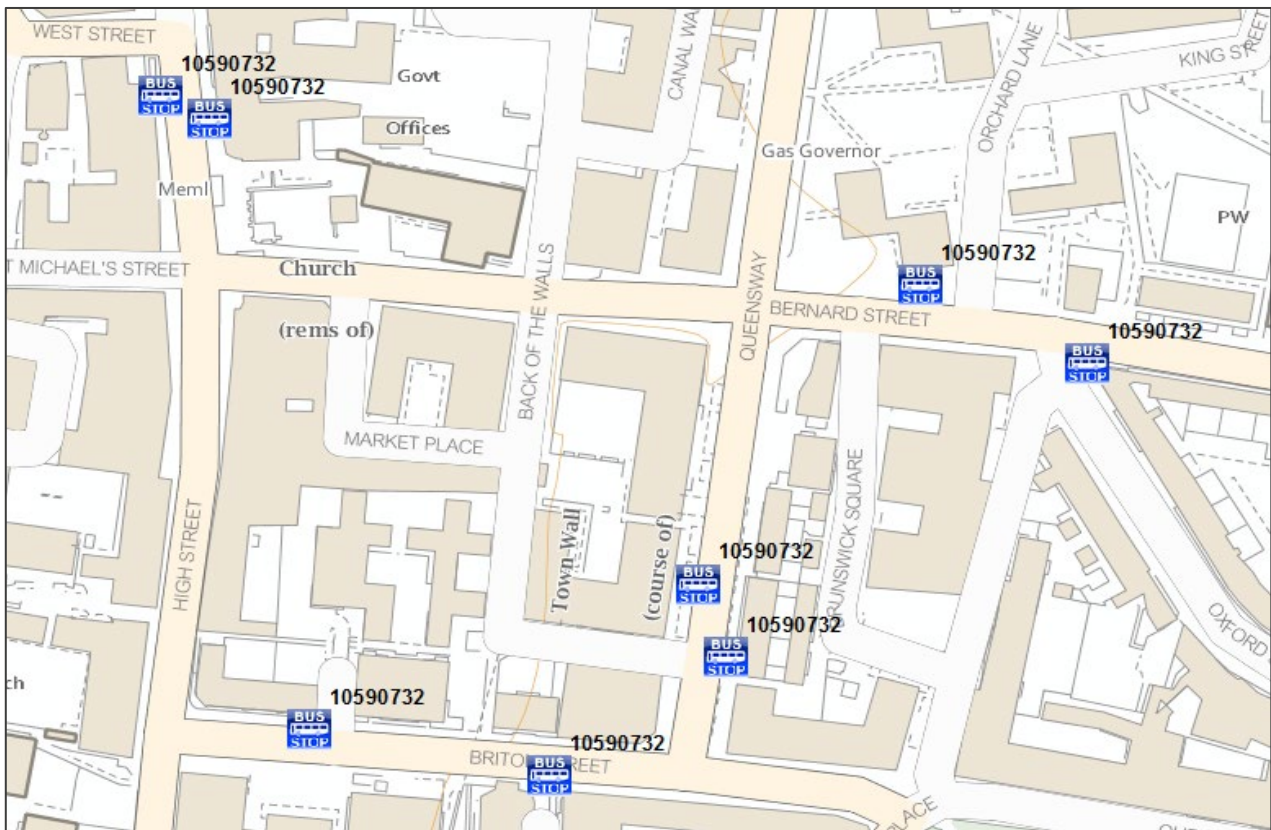
Figure 5: Example of using classification to display symbology and perform spatial analysis

This breaks down as:

Group: 10 = Transport
Category: 59 = Bus Transport
Class: 0732 = Bus Stops

The structure of Points of Interest can be described as relational in nature. Each Group has one or more Categories below it. Each Category in turn has one or more Classes related to it. This type of structure is used extensively in database management technologies as it provides a way of storing the data in a way that reduces the amount of space required and speeds up the retrieval of information. Having this classification, therefore, provides an opportunity to store the data in an efficient way.

5.   Data measures and data sources

Supplier data is supplied to PointX in a wide variety of formats. Some of the data is supplied without grid references and specific attribution, therefore efforts are made to supply this data. The success of this identification is measured by the accuracy flags such as positional accuracy and match indicators.

5.1   Positional accuracy

Ordnance Survey data and specialised geocoding software is used to achieve positional accuracy and to provide a confidence level indicator for each record. Data that cannot be given coordinates due to insufficient location or address detail are not supplied in the Product. It is very important that customers take the positional accuracy value of the feature into account when using it in applications.

The positional accuracy falls into one of the following categories:

•   Positioned to the address or location, usually within the building footprint.

•   Positioned to an adjacent address or location for non-addressable features.

•   Positioned to the road within the address or location.

•   Positioned within the geographical locality.

Typically, most records are positioned on or adjacent to the address or location of the feature. A very small proportion of records are positioned to the road within the address or location, or within the geographic locality of the feature. A positional accuracy code of 3 or 4 is used only for ATMs (cash machines), WiFi hotspots and public telephones, where the data is sourced from a single authoritative and non-duplicated source. Continuous efforts are made to improve the accuracy of the geocoding, as shown in Table 1.

Table 1: Range of positional accuracy codes

Positional accuracy code	% of total dataset – Dec 2010	% of total dataset – Sept 2014	% of total dataset – April 2019
1	71.75	79.87	86.22
2	27.21	19.28	13.66
3	0.84	0.70	0.07
4	0.20	0.15	0.05
Total	100.00	100.00	100.00

If the **positional accuracy is stated as '1'**, the coordinates should fall within the footprint of the real-world feature in question, typically a building or structure.

Where the **positional accuracy is stated as '2'**, the coordinates will either be placed centrally in the text that relates to the feature – and may be within the extent of the feature – or will be positioned close to the true location of a part of the feature. In practice, it will probably be within 10 metres of either the feature or an edge of the feature's geographic extent, although this cannot be guaranteed.

A positional accuracy of '3' indicates that the coordinates are placed centrally on the correct road. As road lengths vary and the central position could be very near or a long way from the true location on the road, it is difficult to say exactly how far these instances might be shown from their true location. In the majority, it is to be expected that the assigned coordinate could be up to a kilometre away, with a small number being even farther.

A positional accuracy of '4' means that the location assigned is in the correct geographic locality, such as the right village or industrial estate, and that it has not been possible to locate to a specific relevant road. Depending on how big the geographic locality in question is, the record's true location could in reality be up to a few kilometres from the reported coordinates.

5.2 USRN Match Indicators

Each Points of Interest feature is matched to the closest road by performing an attribution and spatial match between the feature and OS MasterMap Highways Network. This results in each feature being given a Unique Street Reference Number (USRN). The match accuracy between the Points of Interest feature and the OS MasterMap Highways Network is determined from the USRN Match Indicator attribute. It is again very important that customers take this match indicator value of the feature into account when using it in applications.

If the **match indicator is stated as '1'** the Points of Interest feature has been matched against the OS MasterMap Highways Network using the Unique Property Reference Number (UPRN) from AddressBase and the USRN.

Where the **match indicator is stated as '2'**, the feature has been matched spatially to the road which appears in either the address detail or street name attributes. For more information on these individual attributes please see the Technical Specification.

A match indicator of '3' indicates that the USRN has been spatially matched to the nearest road in the OS MasterMap Highways Network.

Please be aware that a match indicator of 3 may not necessarily be the access road to the feature.

5.3 Addressing

The data contains both addressable and non-addressable records. Structured address information is only provided for those records that are addressable and can be successfully matched against AddressBase Plus.

AddressBase Plus contains current properties using addresses sourced from Local Authorities, Ordnance Survey and Royal Mail for England, Wales and Scotland. The Unique Property Reference Number (UPRN) is the unique identifier for every addressable location in Great Britain.

Records that have been successfully matched will have a UPRN. Attempts have been made to provide address information where possible when not matched against AddressBase Plus.

5.4   Unique referencing

Records have been attributed with both a TOID and TOID version that have been directly derived from area features within OS MasterMap Topography Layer based on the grid reference of the feature. There will be a number of features where a TOID value will not be provided because the feature does not sit within the correct OS MasterMap Topography Layer polygon and these will have a TOID value of *Not Assigned* and a TOID version of '0'.

5.5   Sources of data

There are two main sources of data that provide approximately 80% of the Points of Interest features. The authoritative source for a type of feature is used to build the dataset where possible. Approximately 140 suppliers are used to create the dataset. Annex C lists all the suppliers and indicates their level of contribution to the dataset.

5.6   Classification

PointX relies upon approximately 140 data suppliers to provide the initial classification of each of the records. This is then used to allocate the appropriate class to the feature which can lead to examples where different classes are applied to the same real-world feature, dependent upon the base classification used by the different data suppliers. Part of the production process for the current product involves the removal of multiple instances of what is believed to be the same feature, it is possible that individual instances of what are, in fact, the same type of feature can be reported in different classes.

Annex A: Classification system (v3.1)

The classification scheme has three levels of information:

* There are 9 Groups at the first level and each Group is numbered 01–07, 09, 10. Numbering is not sequential.

* There are 52 Categories at the second level, numbered 01–60. Numbering is not sequential.

* There are over 600 Classes at the third level.

Customers can select Points of Interest from the Group and Category level.

01 Accommodation, eating and drinking

01 Accommodation	
0003 Bed and breakfast and backpacker accommodation	0007 Self catering
0002 Camping, caravanning, mobile homes, holiday parks and centres	0008 Timeshare
0005 Hostels and refuges for the homeless	0009 Youth accommodation
0006 Hotels, motels, country houses and inns	

02 Eating and drinking	
0012 Banqueting and function rooms	0020 Fish and chip shops
0013 Cafes, snack bars and tea rooms	0025 Internet Cafes
0018 Fast food and takeaway outlets	0034 Pubs, bars and inns
0019 Fast food delivery services	0043 Restaurants

02 Commercial services

03 Construction services	
0779 Building and component suppliers	0053 Glaziers
0045 Building contractors	0044 Metalworkers including blacksmiths
0046 Construction completion services	0054 Painting and decorating services
0047 Construction plant	0055 Plasterers
0048 Cutting, drilling and welding services	0056 Plumbing and heating services

03 Construction services

0049 Demolition services	0057 Pool and court construction
0050 Diving services	0058 Restoration and preservation services
0051 Electrical contractors	0059 Road construction services
0778 Fencing and drystone walling services	0060 Roofing and chimney services
0052 Gardening, landscaping and tree surgery services	

04 Consultancies

0063 Architectural and building-related consultants	0069 Image consultants
0064 Business-related consultants	0070 Interpretation and translation consultants
0065 Computer consultants	0071 Security consultants
0066 Construction service consultants	0072 Telecommunications consultants
0067 Feng shui consultants, furnishers and shop fitters	0074 Traffic management and transport-related consultants
0068 Food consultants	

05 Employment and career agencies

0075 Careers offices and armed forces recruitment	0078 Employment agencies
0076 Domestic staff and home help	0079 Modelling and theatrical agencies
0077 Driver agencies	0081 Nursing agencies

06 Engineering services

0083 Aviation engineers	0089 Instrumentation engineers
0084 Chemical engineers	0090 Marine engineers and services
0085 Civil engineers	0091 Mechanical engineers
0086 Electrical and electronic engineers	0092 Pneumatic engineers
0087 Hydraulic engineers	0093 Precision engineers
0088 Industrial engineers	0094 Structural engineers

07 Contract services

0095 Agricultural contractors	0102 Drain and sewage clearance
0096 Aircraft charters	0105 Linen hire and washroom services
0098 Catering services	0107 Office services
0100 Contract cleaning services	0108 Packers
0101 Display and window dressers	0109 Pest and vermin control

08 IT, advertising, marketing and media services

0114 Advertising services	0124 Internet services
0115 Artists, illustrators and calligraphers	0125 Literary services
0116 Computer security	0126 Mailing and other information services
0117 Computer systems services	0127 Marketing services
0118 Concert/exhibition organisers and services	0128 Plate makers, print finishers and typesetters
0119 Database services	0129 Press and journalism services
0120 Desktop publishing services	0130 Printing and photocopying services
0121 Electronic and Internet publishers	0131 Recording studios and record companies
0122 Film and video services	0133 Telephone, telex and fax services
0123 General computer services	0134 Television and radio services

09 Legal and financial

0135 Accountants and auditors	0138 Banks and building societies
0137 Auctioneers, auction rooms and valuers	0796 Franchise and holding company services
0141 Cash machines	0148 Fundraising services
0142 Cheque cashing	0149 Insurers and support activities
0795 Commodity dealers	0150 Mortgage and financial lenders
0143 Company registration and trademarks	0151 Pawnbrokers
0144 Copyright and patent	0811 PayPoint® locations
0145 Credit reference agencies	0829 Pension and fund management
0140 Currency conversion and money transfers	0154 Solicitors, advocates and notaries public
0146 Debt collecting agencies	0773 Stocks, shares and unit trusts
0147 Financial advice services	

10 Personal, consumer and other services

0823 Adult services	0174 Party organisers
0155 Astrologers, clairvoyants and palmists	0175 Personalisation
0158 Cleaning services	0177 Photographic services
0160 Customer service centres	0826 Printing on garments
0161 CV writers	0775 Sculptors, woodworkers and stonemasons
0162 Detective and investigation agencies	0818 Sewage Services
0112 Event Ticket Agents and Box Office	0822 Slimming clubs and services
0165 Funeral and associated services	0821 Spas
0156 Hair and beauty services	0179 Sports services
0167 Headquarters, administration and central offices	0776 Tailoring and clothing alteration
0166 Historical research	0180 Tattooing and piercing services
0103 Hotel Booking Agencies	0182 Trophies and engraving services
0169 Introduction and dating agencies	0777 Vehicle breakdown and recovery services
0170 Lock, key and security services	0183 Vehicle cleaning services
0171 Message and greeting services	0185 Weather services
0173 Motoring organisations	0186 Wedding services
0774 Musicians, orchestras and composers	0188 Window cleaners

11 Property and development services

0189 Commercial property letting	0195 Property information services
0191 Estate and property management	0192 Property letting
0194 Property development services	0190 Property sales

12 Recycling services

0199 Clearance and salvage dealers	0200 Scrap metal dealers and breakers yards
0198 Rag merchants	0202 Waste paper merchants
0196 Recycling, reclamation and disposal	

13 Repair and servicing

0204 Building repairs	0793 Shoe repairs

13 Repair and servicing

0205 Electrical equipment repair and servicing	0210 Sports and leisure equipment repair
0206 Household repairs and restoration	0211 Tool repairs
0207 Industrial repairs and servicing	0212 Vehicle repair, testing and servicing
0209 Service industry equipment repairs	

14 Research and design

0214 Design services	0217 Testing and analysis services
0216 Research services	

15 Transport, storage and delivery

0218 Airlines and airline services	0224 Ferry and cruise companies
0219 Animal transportation	0225 Import and export services
0221 Container and storage	0227 Railway related services
0222 Courier, delivery and messenger	0228 Removals and shipping agents
0223 Distribution and haulage	0230 Taxi services

60 Hire services

0097 Boat hiring services	0104 Leisure equipment hirings
0270 Bouncy castles and inflatables hire	0110 Renting and leasing of personal and household goods
0159 Clothing hire	0111 Sound, light and vision service and equipment hire
0099 Construction and tool hire	0113 Vehicle hire and rental

03 Attractions

16 Botanical and zoological

0231 Aquaria and sea life centres	0236 Horticultural attractions
0232 Bird reserves, collections and sanctuaries	0237 Salmon ladders
0233 Butterfly farms	0239 Zoos and animal collections
0235 Farm-based attractions	

17 Historical and cultural

0240 Archaeological sites	0244 Historic buildings including castles, forts and abbeys
0813 Art galleries	0246 Historical ships
0241 Battlefields	0248 Museums
0245 Historic and ceremonial structures	

18 Recreational

0252 Commons	0254 Picnic areas
0253 Country and national parks	0255 Playgrounds
0814 Municipal Parks and Gardens	

19 Landscape features

0257 Designated scenic features	0259 Trigonometric points

20 Tourism

0268 Information centres	0267 Sightseeing, tours, viewing and visitor centres
0263 Laseria, observatories and planetaria	0266 Theme and adventure parks
0264 Model villages	0269 Unspecified and other attractions
0265 Railways (heritage, steam and miniature)	

58 Bodies of water

0804 Lakes and waters	0806 Tams, pools and meres
0805 Lochs and lochans	0807 Reservoirs

04 Sport and entertainment

21 Sport and entertainment support services

0271 Children's activity centres	0275 Funfair services
0273 Entertainment services	0276 Mobile discos
0274 Firework related services	0820 Motorsport services

22 Gambling

0277 Amusement parks and arcades	0279 Bookmakers
0278 Bingo halls	0280 Casinos
0281 Pools Promoters	

23 Outdoor pursuits

0282 Angling and sports fishing	0285 Parachuting and bungee jumping
0283 Combat, laser and paintball games	0286 Paragliding and hang-gliding
0284 Hot air ballooning	0321 Riding schools, livery stables and equestrian centres
0770 Outdoor pursuit organisers and equipment	0287 Water sports

24 Sports complex

0289 Athletics facilities	0299 Shooting facilities
0290 Bowling facilities	0300 Ski infrastructure and aerial cableways
0291 Climbing facilities	0301 Snooker and pool halls
0292 Golf ranges, courses, clubs and professionals	0302 Sports grounds, stadia and pitches
0293 Gymnasiums, sports halls and leisure centres	0303 Squash courts
0294 Ice rinks	0304 Swimming pools
0297 Motorsport venues	0305 Tennis facilities
0298 Racecourses and greyhound tracks	0306 Velodromes

25 Venues, stage and screen

0825 Adult venues	0312 Nightclubs
0308 Cinemas	0314 Social clubs
0762 Conference and exhibition centres	0315 Theatres and concert halls
0311 Discos	

05 Education and health

26 Animal welfare

0316 Animal clipping and grooming	0320 Pet cemeteries and crematoria
0317 Dog training	0322 Veterinarians and animal hospitals

26 Animal welfare

0318 Horse training	0323 Veterinary pharmacies
0319 Kennels and catteries	

27 Education support services

0324 Education authorities	0326 Examination boards
0325 Education services	0800 Secure units

28 Health practitioners and establishments

0780 Accident and emergency hospitals	0370 Hospices
0330 Alternative, natural and complementary	0371 Hospitals
0364 Chemists and pharmacies	0372 Mental health centres and practitioners
0365 Clinics and health centres	0342 Midwifery
0815 Day and Care Centres	0373 Nursing and residential care homes
0367 Dental and medical laboratories	0344 Optometrists and opticians
0368 Dental surgeries	0809 Parenting and childcare services
0335 Dental technicians	0345 Physical therapy
0337 Dieticians and nutritionists	0352 Speech therapists
0369 Doctors surgeries	0354 Surgeons and cosmetic surgeries
0333 Foot related services	0812 Walk-in centres
0340 Homeopaths	

29 Health support services

0356 Ambulance and medical transportation services	0106 Medical equipment rental and leasing
0357 Blood transfusion service	0361 Medical waste disposal services
0358 Counselling and advice services	0362 Pregnancy related services and help centres
0359 Health authorities	0363 X-ray services

31 Primary, secondary and tertiary education

0379 Broad age range and secondary state schools	0377 Independent and preparatory schools
0375 First, primary and infant schools	0801 Pupil referral units

31 Primary, secondary and tertiary education

0376 Further education establishments	0380 Special schools and colleges
0381 Higher education establishments	0382 Unspecified and other schools

32 Recreational and vocational education

0384 Ballet and dance schools	0394 Language schools
0385 Beauty and hairdressing schools	0395 Martial arts instruction
0388 Diving schools	0396 Music teachers and schools
0389 Drama schools	0397 Nursery schools and pre- and after-school care
0390 Driving and motorcycle schools	0399 Sailing schools
0391 First aid training	0400 Sports and fitness coaching
0392 Flying schools	0403 Training providers and centres

06 Public infrastructure

33 Central and local government

0404 Armed services	0416 Local government
0415 Central government	0419 Members of parliament and members of European parliament
0407 Coastguard stations	0422 Police stations
0408 Consular services	0424 Prisons
0409 Courts, court services and tribunals	0425 Probation offices and police support services
0411 Driving test centres	0426 Registrars offices
0412 Embassies and consulates	0417 Revenue and customs offices
0414 Fire brigade stations	0429 Social service activities
0830 Foreign country support activities	0431 Tribunals
0418 Job centres	

34 Infrastructure and facilities

0453 Allotments	0459 Places of worship
0454 Cemeteries and crematoria	0461 Public toilets
0455 Drinking fountains and water points	0462 Recycling centres
0433 Electrical features	0440 Refuse disposal facilities

34 Infrastructure and facilities

0437 Gas features	0442 Telecommunications companies
0456 Halls and community centres	0443 Telecommunications features
0457 Letter boxes	0444 Utility companies and brokers
0458 Libraries	0441 Waste storage, processing and disposal
0438 Meteorological features	0802 Wi-Fi hotspots

35 Organisations

0445 Animal welfare organisations	0448 Institutes and professional organisations
0816 Charitable organisations	0449 Political parties and related organisations
0769 Community networks and projects	0450 Religious organisations
0817 Conservation Organisations	0447 Sports clubs and associations
0446 Fan clubs and associations	0452 Youth organisations

07 Manufacturing and production

37 Consumer products

0464 Baby, nursery and playground equipment	0480 Footwear
0790 Bathroom fixtures, fittings and sanitary equipment	0481 Furniture
0465 Beds and bedding	0482 Garden goods
0466 Brushes	0483 Giftware
0467 Candles	0485 Hobby, sports and pastime products
0468 Canvas goods	0487 Jewellery, gems, clocks and watches
0470 Carpets, flooring, rugs and soft furnishings	0488 Lampshades and lighting
0472 China and glassware	0489 Leather products
0473 Clothing, components and accessories	0490 Lingerie and hosiery
0785 Conservatories	0491 Luggage, bags, umbrellas and travel accessories
0474 Cookers and stoves – non-electrical	0471 Medals, trophies, ceremonial and religious goods
0475 Cosmetics, toiletries and perfumes	0493 Musical instruments
0476 Curtains and blinds	0494 Photographic and optical equipment
0477 Cutlery and tableware	0479 Refrigeration and freezing appliances

37 Consumer products

0478 Disability and mobility equipment	0495 Saunas and sunbeds
0486 Disposable products	0497 Tents, marquees and camping equipment
0782 Fireplaces and mantelpieces	0498 Tobacco products

38 Extractive industries

0500 Coal mining	0504 Sand, gravel and clay extraction and merchants
0501 Oil and gas extraction, refinery and product manufacture	0506 Stone quarrying and preparation
0502 Ore mining	0507 Unspecified quarries or mines

39 Farming

0508 Animal breeders (not horses)	0514 Fruit, flower and vegetable growers
0509 Arable farming	0516 Horse breeders and dealers
0510 Bee-keepers	0517 Livestock farming
0511 Dairy farming	0518 Mixed or unspecified farming
0512 Fish and shellfish	0520 Poultry farming, equipment and supplies
0513 Forestry	

40 Foodstuffs

0522 Alcoholic drinks	0525 Dairy products
0523 Animal feeds, pet foods, hay and straw	0526 Fish, meat and poultry products
0524 Baking and confectionery	0528 Milling, refining and food additives
0530 Catering and non-specific food products	0529 Non-alcoholic drinks

41 Industrial features

0531 Business parks and industrial estates	0537 Oast houses
0534 Energy production	0538 Pipelines
0535 Lighting towers	0542 Unspecified works or factories
0536 Lime kilns	0543 Water pumping stations

42 Industrial products

0544 Abrasive products and grinding equipment	0577 Industrial coatings and finishings
0783 Access equipment	0580 Lifting and handling equipment
0545 Adhesives and sealants	0581 Lubricants and lubricating equipment
0546 Aeroplanes	0582 Marine equipment including boats and ships
0547 Agricultural machinery and goods	0583 Measurement and inspection equipment
0548 Air and water filtration	0584 Medical equipment, supplies and pharmaceuticals
0549 Arms and ammunition	0585 Metals manufacturers, fabricators and stockholders
0550 Bearing, gear and drive elements	0586 Moulds, dies and castings
0551 Bee-keeping supplies	0588 Office and shop equipment
0553 Bricks, tiles, clay and ceramic products	0589 Ovens and furnaces
0555 Cable, wire and fibre optics	0590 Packaging
0784 Car ports and steel buildings	0591 Paints, varnishes and lacquers
0557 Colours, chemicals and water softeners and supplies	0594 Pesticides
0558 Cleaning equipment and supplies	0598 Printing-related machinery
0562 Concrete products	0599 Published goods
0563 Cooling and refrigeration	0600 Pumps and compressors
0765 Educational equipment and supplies	0601 Radar and telecommunications equipment
0564 Electrical components	0602 Road maintenance equipment
0565 Electrical motors and generators	0603 Ropes, nets and cordage
0566 Electrical production and manipulation equipment	0604 Rubber, silicones and plastics
0567 Electronic equipment	0605 Seals, tapes, taps and valves
0568 Electronic media	0791 Shelving, storage, safes and vaults
0569 Engines	0606 Signs
0781 Fences, gates and railings	0607 Special purpose machinery and equipment
0571 Fertilisers	0609 Stationery, stamps, tags and labels
0572 Food and beverage industry machinery	0608 Textiles, fabrics, silk and machinery
0573 General construction supplies	0579 Tools including machine shops
0612 General manufacturing	0615 Vehicles
0574 General-purpose machinery	0613 Vehicle bodybuilders

42 Industrial products	
0575 Glass	0614 Vehicle components
0788 Glass fibre services	0787 Waste collection, processing and disposal equipment
0576 Horticultural equipment	0616 Wood products including charcoal, paper, card and board
0767 Ice	0617 Workwear

09 Retail

46 Clothing and accessories	
0797 Baby and nursery equipment and children's clothes	0659 Jewellery and fashion accessories
0656 Clothing	0660 Lingerie and hosiery
0657 Footwear	

47 Food, drink and multi item retail	
0671 Alcoholic drinks including off-licences and wholesalers	0668 Green and new age goods
0661 Bakeries	0669 Grocers, farm shops and pick your own
0662 Butchers	0670 Herbs and spices
0768 Cash and carry	0703 Livestock markets
0663 Confectioners	0705 Markets
0699 Convenience stores and independent supermarkets	0672 Organic, health, gourmet and kosher foods
0665 Delicatessens	0819 Supermarket chains
0666 Fishmongers	0798 Tea and coffee merchants
0667 Frozen foods	

48 Household, office, leisure and garden	
0824 Adult shops	0683 Garden centres and nurseries
0712 Art and antiques	0684 Garden machinery and furniture
0674 Books and maps	0685 General household goods
0693 Camping and caravanning	0717 Gifts and cards

48 Household, office, leisure and garden	
0675 Carpets, rugs, soft furnishings and needlecraft	0686 Hobby, sports and pastime products
0714 Charity shops	0687 Leather goods, luggage and travel accessories including handbags
0676 China and glassware	0688 Lighting
0827 Comic books	0704 Mail order and catalogue stores
0828 Computer shops	0689 Music and video
0720 Computer supplies	0690 Musical instruments
0677 Cosmetics, toiletries, perfumes and hairdressing supplies	0718 Party goods and novelties
0678 Craft supplies	0691 Pets, supplies and services
0679 Cycles and accessories	0724 Photographic and optical equipment
0700 Department stores	0763 Post offices
0701 Discount stores	0831 Potteries
0680 DIY and home improvement	0719 Second-hand goods
0721 Domestic appliances	0708 Shopping centres and retail parks
0722 Electrical goods and components	0725 Stationery and office supplies
0716 Florists	0710 Surplus goods
0682 Furniture	0726 Telephones and telephone cards
0766 Fuel distributors and suppliers	0694 Travel agencies
0764 Garages, garden and portable buildings	

49 Motoring	
0695 New vehicles	0697 Vehicle auctions
0696 Second-hand vehicles	0698 Vehicle parts and accessories

10 Transport

53 Air	
0728 Airports and landing strips	0729 Helipads

54 Road and rail

0730 Bridges	0737 Petrol and fuel stations
0733 Cattle grids	0740 Signalling facilities
0734 Fords and level crossings	0743 Viaducts
0735 Motorway service stations	0744 Weighbridges
0736 Parking	

56 Water

0751 Aqueducts	0753 Moorings and unloading facilities
0760 Ferries and ferry terminals	0754 Rivers and canal organisations and infrastructure
0752 Locks	0755 Weirs, sluices and dams

57 Public transport, stations and infrastructure

0731 Bus and coach stations, depots and companies	0758 Taxi ranks
0794 London Underground entrances	0756 Tram, metro and light railway stations and stops
0738 Railway stations, junctions and halts	0761 Underground network stations

59 Bus transport

0732 Bus stops	0759 Hail and ride zones

Annex B: Points of Interest symbology

Symbology: Categories

Table 2: Colour bitmap symbols for Points of Interest Categories

Points of Interest Symbology

01 Accommodation, eating and drinking

01 Accommodation	
02 Eating and drinking	

02 Commercial services

03 Construction services	
04 Consultancies	
05 Employment and career agencies	
06 Engineering services	
07 Contract services	
08 IT, advertising, marketing and media services	
09 Legal and financial	
10 Personal, consumer and other services	
11 Property and development services	
12 Recycling services	
13 Repair and servicing	
14 Research and design	
15 Transport, storage and delivery	
60 Hire Services	

03 Attractions

16 Botanical and zoological	
17 Historical and cultural	
18 Recreational	
19 Landscape features	
20 Tourism	
58 Bodies of water	

04 Sport and entertainment

21 Sport and entertainment support services	
22 Gambling	
23 Outdoor pursuits	
24 Sports complex	
25 Venues, stage and screen	

05 Education and health

26 Animal welfare	
27 Education support services	
28 Health practitioners and establishments	
29 Health support services	
31 Primary, secondary and tertiary education	
32 Recreational and vocational education	

06 Public infrastructure

33 Central and local government	
34 Infrastructure and facilities	
35 Organisations	

07 Manufacturing and production

37 Consumer products	
38 Extractive industries	
39 Farming	
40 Foodstuffs	
41 Industrial features	
42 Industrial products	

09 Retail

46 Clothing and accessories	
47 Food and drink and multi item retail	
48 Household, office, leisure and garden	
49 Motoring	

10 Transport

53 Air	
54 Road and rail	
55 Walking	
56 Water	
57 Public transport, stations and infrastructure	
59 Bus transport	

Symbology: Additional Classes – colour bitmaps

Table 3: Colour bitmap symbols for selected Points of Interest Classes

Points of Interest Symbology

01 Accommodation, eating and drinking

Guest houses and B&B		Banqueting and Function rooms	
Camping and Caravaning		Cafes	
Hostels		Fast Food Delivery	
Hotels		Fast Food and Takeaway	
Self Catering		Fish and chip shops	
Timeshare		Internet Cafes	
Youth Hostels		Pubs, Bars and Inns	
		Restaurants	

02 Commercial services

ATMs		Financial Institutions	

03 Attractions

Aquaria		Commons	
Bird reserves		Country Parks	
Butterfly farms		Picnic Areas	
Farm based attractions		Playgrounds	
Horticultural attractions		Scenic features	
Salmon ladders		Trigonometric points	
Zoos		Tourist Information centres	
Archaeological sites		Planetaria and laseria	
Art Galleries		Model villages	
Battlefields		Railways	
Historic and ceremonial structures		Visitor centres	
Historic buildings		Theme parks	
Historic ships		Unspecified attractions	
Museums		Bodies of water	

04 Sport and entertainment

Angling		Racecourses	
Combat, laser and paintball games		Shooting facilities	
Hot air ballooning		Ski slopes	
Outdoor pursuit organisers		Snooker and Pool halls	
Parachuting		Sports grounds	
Hang gliding		Squash courts	
Riding schools		Swimming pools	
Water sports		Tennis facilities	
Athletics facilities		Velodromes	
Bowling facilities		Cinemas	
Climbing facilities		Conference and exhibition centres	

Golf		Discos	
Leisure centres and gymnasiums		Nightclubs	
Ice skating		Social clubs	
Motorsports		Theatres	

05 Education and health

Accident and Emergency Hospitals		Hospices	
Chemists and pharmacies		Hospitals	
Clinics		Nursing and Care Homes	
Dentists		Opticians	
Doctors			

06 Public infrastructure

Coastguard Stations		Fire Stations	
Police Stations		Ambulance Stations	
Halls and community centres		Public toilets	
Letter boxes		Recycling centres	
Libraries		Refuse disposal	
Places of worship		Wi-Fi	
Public telephone		Wi-Fi	

10 Transport

Helipads		Petrol and fuel stations	
Bridges		Roadside telephone boxes	
Motorway service stations		Tunnels	
Parking		Ferries and ferry terminals	

Annex C: Points of Interest provenance

The following percentages are indicative only. They were correct as of August 2019 but are subject to change at each quarterly supply without notice.

Provenance	Contribution (%)
Ordnance Survey	43.68%
118 Information	37.02%
Department for Transport	8.86%
Local Data Company	3.84%
Wilmington Healthcare Ltd	1.22%
Vocalink	1.13%
Edubase	0.64%
PayPoint	0.63%
Department for Transport (Parking)	0.51%
PointX	0.43%

Additional Suppliers to Points of Interest (supplying <3% of total features between them)		
Association of Scottish Visitor Attractions	Humberside Police	Royal Mail
Avon & Somerset Constabulary	Information and Analytical Services Division - Education Department	Royal Society for the Protection of Birds
Avon Fire Brigade	Isle of Wight Ambulance Service	Scottish Ambulance Service
Bedfordshire and Luton Fire and Rescue Service	Isle of Wight Fire & Rescue	Scottish Court Service
Bedfordshire Police	Kent County Constabulary	Scottish Fire and Rescue Service
British Wind Energy Association	Kent Fire Brigade	Shropshire Fire & Rescue
BT Openzone	Lancashire Constabulary	South Central Ambulance Service
Buckinghamshire Fire & Rescue Service	Lancashire Fire and Rescue Service	South East Coast Ambulance Service
Cambridgeshire Constabulary	Leicestershire Constabulary	South Wales Fire Service
Cambridgeshire Fire & Rescue Service	Leicestershire Fire & Rescue	South Wales Police
Cheshire Constabulary	Lincolnshire Fire & Rescue	South Western Ambulance Service
Cheshire Fire Service	Lincolnshire Police	South Yorkshire Fire & Rescue
City of London Police	London Ambulance Service	South Yorkshire Police Headquarters
Cleveland Fire Brigade	London Fire Brigade	Sport Scotland
Cleveland Police	London Metropolitan Police	Sports Council for Wales
Cornwall County Fire Brigade	Merseyside Fire Service	Staffordshire Fire and Rescue Service
Cumbria Constabulary	Merseyside Police	

Additional Suppliers to Points of Interest (supplying <3% of total features between them)

Cumbria Fire Service
Derbyshire Constabulary
Derbyshire Fire & Rescue
Devon & Cornwall Constabulary
Dorset Fire and Rescue Service
Dorset Police
Driver and Vehicle Standards Agency
Durham and Darlington Fire and Rescue Authority
Durham Constabulary
Dyfed-Powys Police
East of England Ambulance Service
East Sussex Fire and Rescue Service
Essex County Fire and Rescue Service
Essex Police
Experian
Gloucestershire Constabulary
Gloucestershire Fire & Rescue
Greater Manchester Fire Service
Greater Manchester Police
Gwent Police
Hampshire Constabulary
Hampshire Fire & Rescue
Hereford & Worcester Fire Brigade
Hertfordshire Constabulary
Hertfordshire Fire & Rescue
Historic Houses Association
Humberside Fire Brigade

Mid & West Wales Fire & Rescue Service
Moto
National Association of Citizens Advice Bureaux
National Coastwatch Institution
National Trust for Scotland
NHS Choices
Norfolk Constabulary
Norfolk Fire Service
North East Ambulance Service
North Wales Fire and Rescue Service
North Wales Police
North West Ambulance Trust
North Yorkshire Fire and Rescue Service
North Yorkshire Police
Northamptonshire Constabulary
Northamptonshire Fire and Rescue Service
Northumberland Fire and Rescue Service
Northumbria Police
Nottinghamshire Fire and Rescue Service
Nottinghamshire Police
O2 limited
Open Plaques
Oxfordshire Fire Service
Police Scotland
RoadChef Motorways Ltd
Royal Berkshire Fire & Rescue Service

Staffordshire Police Headquarters
Strategic Planning Department
Suffolk Fire Service
Suffolk Police
Surrey Fire & Rescue
Surrey Police
Sussex Police
Thames Valley Police
The Cloud
The Court Service
Transport for London
Trust Headquarters
Tyne & Wear Fire Brigade
Warwickshire Fire and Rescue Service
Warwickshire Police
Welcome Break Group Ltd
Welsh Ambulance Service
Welsh Assembly Government
West Mercia Constabulary
West Midlands Ambulance Service
West Midlands Fire Service
West Midlands Police
West Sussex Fire & Rescue Service
West Yorkshire Fire Service
West Yorkshire Police
Wiltshire Constabulary
Wiltshire Fire Brigade
Yorkshire Ambulance Service

Annex D: Glossary

Glossary	
Accuracy	The closeness of the results of observations, computations or estimates to the true values or the values accepted as being true. Accuracy relates to the exactness of the result and is the exactness of the operation by which the result is obtained.
Administrative area	A blanket term used by Ordnance Survey to refer to all public administrative areas, specifically local government management and electoral areas.
American Standard Code for Information Interchange (ASCII)	A 7-bit code for encoding a standard character set.
Area	A spatial extent defined by circumscribing lines that form a closed perimeter that does not intersect itself.
Attribute	An attribute is a property of an entity, usually used to refer to a non-spatial qualification of a spatially referenced entity. For example, a name or descriptive code indicating what an entity represents or how it should be portrayed.
Attribute code	An alphanumeric identifier code used in digital map data to describe each feature in terms either of the object surveyed or its representation on the map (or both).
Coordinates	Pairs of numbers, such as an easting and a northing, expressing horizontal distances along original axes. Alternatively, triplets of numbers measuring horizontal and vertical distances.
Currency	An expression of the up-to-dateness of data.
Data format	A specification that defines the order in which data is stored or a description of the way data is held in a file or record.
Eastings	See rectangular coordinates.
Feature	An item of detail within a map that can be a point and/or symbol, text or line.
Field	A specified part of a record containing a unit of data, such as the date of digitising. The unit of data may be a data element or a data item. Every field has a name and a predefined interpretation.
Geographical information system (GIS)	A system for capturing, storing, checking, integrating, analysing and displaying data that is spatially referenced to the Earth. This is normally considered to involve a spatially referenced computer database and appropriate applications software.
Map scale	The ratio between the extent of a feature on the map and its extent on the ground, normally expressed as a representative fraction, such as 1:1250 or 1:10 000.

Glossary	
Name	The proper name or label of an object (real world) or feature (object abstraction). The descriptive name might consist of one or more text strings or be an attribute of the object or object abstraction.
National Grid	A unique referencing system that can be applied to all Ordnance Survey maps of Great Britain (GB) at all scales. It is used by Ordnance Survey on all post-war mapping to provide an unambiguous spatial reference in Great Britain for any place or entity whatever the map scale. The National Grid is defined by the OSGB36 spheroid.
Northings	See rectangular coordinates.
Object (real world)	A recognisable discrete part of the real world.
Origin	The zero point in a system of rectangular coordinates.
Positional accuracy	The degree to which the coordinates define a point's true position in the world, directly related to the spheroid and/or projection on which the coordinate system is based.
Precision	The exactness with which a value is expressed, whether the value be right or wrong.
Rectangular coordinates	Also known as X-Y coordinates and as eastings and northings. These are two-dimensional coordinates that measure the position of any point relative to an arbitrary origin on a plane surface (for example, a map projection).
Resolution	A measure of the ability to detect quantities. High resolution implies a high degree of discrimination but has no implication as to accuracy. For example, in a collection of data in which the coordinates are rounded to the nearest metre, resolution is 1 metre, but the accuracy may be ± 5 metres or worse.
Spatial data	Data that includes a reference to a two- or three-dimensional position in space as one of its attributes. It is used as a synonym for geometric data.
Transfer medium	The physical medium on which digital data is transferred from one computer system to another. For example, Secure URL.