

# THALES

**PROJECT 783  
TRANSPORT DIRECT  
NATIONAL PUBLIC TRANSPORT DATA REPOSITORY  
NPTDR  
WEB SITE USER GUIDE**

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## DISTRIBUTION

- 1 Project Master File
- 2 NPTDR Web Site

## ISSUE RECORD

Issue	Date	Purpose
1 Draft A	11/11/04	First draft issue
1	15/02/05	First issue - for ftp users
2 Draft A	22/02/05	Updated to include web access and list of LA areas
2	02/03/05	Minor changes resulting from comments
3	04/05/05	Added stops file disaggregation description
4	25/08/05	New Thales address. Revised FINDSTR section
5	06/02/06	New Thales email address
6 Draft A	08/11/06	Additional questions answered; mention readme.txt. Section on 'Scope of Retrieved CIF Files' expanded to include information on specific areas etc.
6 Draft B	09/01/07	Major revisions for change of method of splitting up NaPTAN stops file. Updates to 'Scope of Retrieved CIF Files' section
6	18/01/07	Issued for new October 2006 data set.
7 Draft A	25/01/07	Draft of issue for Oct 07 data collection; addition of TXC files plus minor changes & updates.
7 Draft B	30/01/07	Minor changes and additions; new Thales division & company details.
7	31/01/2008	Issued for new October 2007 data set.
8	25/04/2008	Updated for new web site.
9	29/01/2009	Issued for new October 2008 data set & revised Thales details.

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## WEB SITE USER GUIDE

### 1. About NPTDR

The National Public Transport Data Repository (NPTDR) holds snapshots of public transport data for use by local authorities and other organisations in the production of accessibility strategies via software tools such as Accession. It is also used for other related purposes.

Specifically NPTDR currently holds timetable & route data, and associated static geographic data, e.g. bus stop locations, for October 2004, October 2005, October 2006, October 2007 and October 2008.

### 2. This Guide

This guide describes how to retrieve disaggregated data from the NPTDR web site.

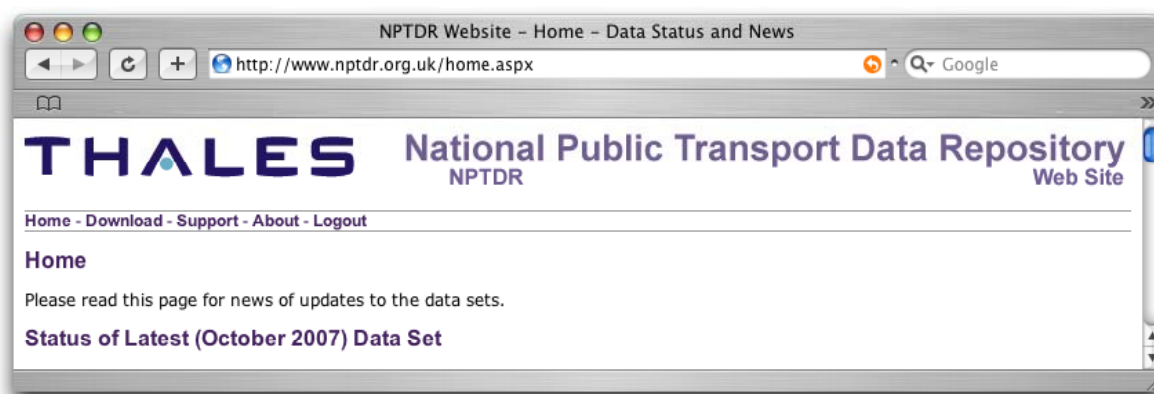
You can access the site in two ways:

- Via a web browser (see Section 4)
- Via FTP (see Section 5)

Whilst FTP is the preferred method of accessing the data, you should use the web browser if you are not familiar with FTP or if your internet connection bars the use of FTP.

### 3. General Information

The web site contains information on NPTDR, news and support details, as well as a download area for the data sets.



## 4. Connect to the NPTDR Web Site via a Web Browser

Use your web browser to connect to the site:

- Address: [nptdr.org.uk](http://nptdr.org.uk)
- Username and password: as supplied to you (these are case-sensitive)

If you do not have a username or password then contact the Thales NPTDR helpdesk (see Section 11).

- On your first visit you will have to confirm your acceptance of the data use agreement.
- Click on 'Downloads'
- You will then see windows for selecting the files you wish to download; the structure is as described in Section 6.
- You will see the latest *Web Site User Guide.pdf*; – ensure you have the latest issue.

### 4.1 Navigate Around

- Use the Current Directory window to select a directory (click once to open the directory)
- Use the Current File window to select a file (it shows files in the current directory)
- Click on 'Download...' to download your selection
- Click on '..' to go up one directory level
- Click on '\' to go back to the top level directory
- Do not use your browser's 'Back' button

You can also select multiple files and directories to download all at once:

- In the Current File window:
  - 'Select All' selects every file
  - Select multiple files via Shift-click and Ctrl-click in the usual Windows manner. They will be zipped up into a single download file.
- In the Current Directory window:
  - 'Select All' selects every directory (take care, you can select the entire - large - data set this way!)
  - 'Enable Multiple Selection' allows you to select multiple directories to download at once – once ticked you can select multiple directories via Shift-

click and Ctrl-click in the usual Windows manner. They will be zipped up into a single download file.

- 'Include All Subdirectories' selects & includes every subdirectory below the one you selected in Current Directory (take care, you can select the entire - large - data set this way!)

## 4.2 Examples

Typically you will want to download one or more administrative areas plus stop data. To do this for the October 2006 data set:

- Log in
- Click on 'October 2006'
- Click on 'Timetable Data'
- Click on (for example) 'CIF'
- Click on (for example) 'Admin\_Area\_019'
- Click on 'Admin\_Area\_019.zip'
- Click on 'Download...'
- Your browser will probably now ask you to OK, Save & Close the transfer

As a second example you can get two files in one download:

- Log in
- Click on 'October 2006'
- Select 'Enable Multiple Selection?'
- Click on 'Timetable Data'
- Click on 'CIF'
- Click on 'Admin\_Area\_019.zip'
- Shift-click on 'Admin\_Area\_020.zip' (or the adjacent 'Select All')
- Click on 'Download...'
- Your browser will probably now ask you to OK, Save & Close the transfer

The example below shows the download of some related stops files:

- Log in
- Click on 'October 2006'

- Click on 'Stops Data'
- Click on (for example) 'CSV'
- Select 'Enable Multiple Selection?'
- Click on '019.zip'
- Control-click on '020.zip', '910.zip', '920.zip', '930.zip', '940.zip'
- Click on 'Download...'
- Your browser will probably now ask you to OK, Save & Close the transfer

### 4.3 Logging Out

At the end of your session click 'Logout'.



## 5. Connect to the NPTDR Web Site via FTP

Use your FTP software to connect to the site:

- Address: ftp://nptdr.org.uk
- Username and password: as supplied to you (these are case-sensitive)

If you do not have a username or password then contact the Thales NPTDR helpdesk (see Section 11).

## 6. Directory and File Structure

The basic arrangement is:

- ▶ User Guide (latest version) & Readme file
- ▶ Data Collection Date
  - ▶ Stops Data (2006 on)
    - ▶ CSV or XML (2007 on)
      - ▶ Administrative Area Zip File (2006 on)
      - ▶ Stops File (2006 on)
  - ▶ Timetable Data
    - ▶ CIF or TXC (2007 on)
      - ▶ Administrative Area Directory
      - ▶ Administrative Area Zip File
      - ▶ Transport Mode Files
  - ▶ NaPTAN Stops Zip File (CSV or XML)
  - ▶ NPTG National Gazetteer Zip File (CSV)
  - ▶ Other file(s) if appropriate

When you have logged in you will see the latest *Web Site User Guide.pdf*; and the file *readme.txt* – ensure you have downloaded and read both of these.

Timetable data is available in two formats: CIF and, from 2007, TXC (TransXchange).

Stop data is available in two formats: CSV and, from 2007, XML.

Within each data collection directory there is one directory for each Local Authority administrative area, identified by its area ATCO code; e.g. Admin\_Area\_118 is the directory for Plymouth. A list of area ATCO codes is given in Section 12.

Within this there is a zip file, also named for the Local Authority administrative area, containing a timetable CIF or TXC file for each mode of transport present in the area. The file name identifies the area and mode; e.g. Atco\_118\_bus.cif for the Plymouth bus CIF file.

There are zipped national NaPTAN files in CSV and XML format and, from 2006, files containing the same data split into individual area stops file (plus national rail etc.)

There is a National Gazetteer Zip file in CSV format.

## 7. Scope of Retrieved Timetable Files

Data is collected annually in October. NPTDR contains a set of data for each year starting with October 2004.

Services will normally be those running during the data collection period. Where no data was available at the time of the collection, services for other dates as near as possible to the data collection period may have been substituted.

The CIF or TXC timetable files you retrieve will include the whole of any service that has at least one stop within the requested local authority area. Thus you do not need to retrieve adjacent areas to ensure all services in your area are included.

Specific features of the database are described below.

### 7.1 Greater London (2004 to 2006)

Greater London is a single area, ATCO Code 490. Data for Greater London is not comprehensive. The data set includes:

---

TRAIN	Full data (2004, 2005 & 2006)
COACH	No data (2004). Full data (2005 & 2006)
BUS	Partial data - services which cross the boundary into adjacent regions (2004, 2005 & 2006)
FERRY	No data
METRO	No data

---

In addition for 2006 a complete set of Greater London data apart from TRAIN (i.e. national rail) is supplied as a TXC TransXchange file. This has not been processed via NPTDR but can be used within Accession. It is a large set of files and these should be loaded in batches to avoid overloading system resources.

Note that this does not affect bus and ferry data for areas adjacent to Greater London; they should be complete. You do not need to download any London data unless you are specifically interested in it.

### 7.2 Greater London (2007 on)

The data for Greater London is now a complete set for all transport modes.

### 7.3 Blackburn with Darwen & Lancashire (2004 on)

If you require data for Blackburn with Darwen, most is within the data for Lancashire.

You should download and use all available area 250 Lancashire and area 258 Blackburn with Darwen data to obtain a complete set for Blackburn with Darwen.

This may change in the future.

## **7.4 Leicester & Leicestershire (2004 to 2006)**

If you require data for Leicester, most is within the data for Leicestershire.

You should download and use all available area 269 Leicester and area 260 Leicestershire data to obtain a complete set for Leicester.

## **7.5 Leicester & Leicestershire (2007 on)**

Leicester and Leicestershire now have separate data sets.

## **7.6 Redcar & Cleveland (2007 only)**

No bus data was available in 2007 so the bus data for Redcar & Cleveland in the 2007 data set is based on the 2008 data. All service start and end dates have been set to 1<sup>st</sup> June 2004 to 31<sup>st</sup> December 2009 respectively to ensure they include the 2007 data collection week.

## **7.7 North East Region, including Cumbria (2008 only)**

075 Hartlepool, 076 Darlington, 077 Stockton-on-Tees, 078 Redcar & Cleveland, 079 Middlesbrough, 090 Cumbria, 130 Durham, 310 Northumberland, 410 Tyne & Wear.

In all these areas there is a small number of services shown as using a stop with NaPTAN stop ID 000099999999. This is a dummy code with no OSGR. It is to be disregarded for accessibility purposes.

There is slightly larger number of stops with non- NaPTAN stop IDs (most with the correct local authority ATCO prefix). These stops do have a valid OSGR and can be used for accessibility planning.

## **7.8 Air (2006 on)**

Air services are included for Scotland only; starting from the October 2006 data set.

## **7.9 Coach (2005 on)**

Coach data is included starting from the October 2005 data set. Services such as those operated by National Express are identified as COACH, as are most local coach services.

There is no absolute divide between COACH and BUS; NPTDR uses the mode specified by the data supplier.

## **7.10 Duplicates (2004 to 2008)**

The data set includes a spreadsheet list of potential duplicates – services which appear two or more times and may be the same. Details are with the file.

## 8. Data Quality

The data quality varies with the area it has been collected from; corrections and improvements may have been made to the initial data provided on the site; further such changes may be made in the future.

## 9. NaPTAN and National Gazetteer - Data Sets for October 2006 Onwards

(For details of the arrangement in October 2005 and 2004 see Section 10.)

These files contain geographical data and are the same as those available from the JourneyWeb web site [www.journeyweb.org.uk](http://www.journeyweb.org.uk) but are those that best match the data collection period.

At the data collection date there are also the following standard files used in processing the data:

- `nptg.zip` – NPTG, the national gazetteer of localities in Great Britain
- `NaPTAN.zip` – the full set of NaPTAN stops in a single file; see Section 10.1.2 for details)
- In the folder 'Stops Data' - `xxx.zip` files (e.g. `520.zip`) – NaPTAN stop data for each area and for “national” services; see Section 9.1 for details

### 9.1 Selecting Stops Data

This section tells you how to select the stops files for the local authority area(s) you are interested in.

#### 9.1.1 Why Do I Need to Do This?

Accession can use the full set of stops files but this slows its operation.

#### 9.1.2 What Stops Files Are There?

There are stops files for:

- Bus and coach stops (prefixed with the local authority code: 010 to 690)
- National rail stations (prefixed 910)
- Airports (prefixed 920)
- Ferry ports (prefixed 930)
- Metro stations (prefixed 940)

Note: there is no means of distinguishing between a bus and a coach stop. Coach stops are currently identified as for bus stops in an admin area and are not prefixed “900”.

### 9.1.3 Which Areas Should I Select?

You should select and download:

- 1) NaPTAN stop data for the area(s) you are interested in. This is mostly BUS & COACH stops.
- 2) NaPTAN stop data for the areas surrounding the area(s) you're interested in.
- 3) NaPTAN stop data for other transport modes if you are interested in them. This data is "national" i.e. one set each for the whole country, for each mode 910 TRAIN, 940 METRO, etc.

This will get you everything you need, but if, when using the data, you get warning messages for missing stops further afield, you'll need to decide if these stops matter to you & if so download the stops data for these areas also.

The full list of local authority area codes and national codes is in Section 13.

## 9.2 Select & Download the Stops Files

Select as shown in Section 4.2.

Use WinZip or similar to select and decompress the file Stops.csv or Stops.xml.

## 10. NaPTAN and National Gazetteer - Data Sets for October 2004 & October 2005

These files are the same as those available from the JourneyWeb web site [www.journeyweb.org.uk](http://www.journeyweb.org.uk) but are those that best match the data collection period.

At the data collection date there are the following standard files used in processing the data:

- `ng.zip` – NPTG, the national gazetteer of localities in Great Britain
- `NaPTAN.zip` – the full set of NaPTAN stops in a single file; see Section 10.1.2 for more details

### 10.1 Selecting Stops Data from `stops.csv`

This section tells you how to disaggregate the stops file `stops.csv` – i.e. how to split up the stops file so that you can extract stops for the local authority area(s) you are interested in.

#### 10.1.1 Why Do I Need to Do This?

Accession can use the full stops file but this slows its operation.

#### 10.1.2 What Is the Stops File?

The “stops file” `stops.csv` is contained within the zip file `NaPTAN.zip`. `NaPTAN.zip` is a file available on the internet from the NPTDR ftp site and the NPTDR web site, and contains a number of files related to bus stops etc. The one to use for NPTDR purposes is the file `stops.csv` which contains national stop details for the following:

- Bus, coach and metro stops (prefixed with the local authority code: 010 to 690)
- National rail stations (prefixed 910)
- Airports (prefixed 920)
- Ferry ports (prefixed 930)
- Metro stations (prefixed 940) – from 2005

Note: there is no means of distinguishing between a bus and a coach stop. Coach stops are currently identified as for bus stops in an admin area and are not prefixed “900”.

`Stops.csv` is a large file containing over 380,000 records; it cannot be opened in Microsoft Excel. It also contains codes which Excel will not read correctly (ones beginning with a “0” (zero), for instance). The method presented in this document is to use the Windows command line command `FINDSTR`.

### 10.1.3 Which Areas Should I Select?

This will probably be for your local authority area plus the surrounding ones, to ensure you capture stops for entire routes.

If there are long-distance routes that you need to include, you will have to include many areas.

If you are interested in rail, etc. transport modes you should also select the 910 etc. "areas" as they contain national data for these modes.

Data for coach is within the local authority data. In 2004 data for metro is within the local authority data.

The list of local authority area codes is in Section 13.

## 10.2 Extract the Stops File

Use WinZip or similar to select and decompress the file Stops.csv

Note: the other files in NaPTAN.zip are not needed.

## 10.3 Create a New Stops File

Open a command prompt window. The method depends upon the version of Microsoft Windows you are using but is likely to be Start > Programs > Command Prompt, or Start > Accessories > Command Prompt or similar.

Use a CD command to navigate to the directory containing the stops file, for example:

```
CD c:\nptdr\stops
```

Enter a FINDSTR command in the format shown below, but substituting the area code(s) you require; for example:

```
FINDSTR /B "\"639^" stops.csv > 639AberdeenCity.csv
```

This selects all stops in area 639 Aberdeen City and exports them to a .csv file

```
FINDSTR /B "\"639 \"630" stops.csv > 639-630Areas.csv
```

This selects all stops in areas 639 and 630 and exports them to a .csv file

```
FINDSTR /B "\"639 \"630 \"638^" stops.csv > 639-630-038Areas.csv
```

This selects all stops in areas 639, 630 and 638 and exports them to a .csv file

## Notes

Be very careful to get the sequence of slashes, backslashes, quotes, carets & spaces correct. It's best to cut & paste an example command from this document.

The caret symbol ^ is needed in commands where there is an odd number of quote " marks.  
It may take a minute or two to process the stops file.

## **11. Support**

Support details are on the Support page of the web site.

If you have any questions about the web site, ftp site or logging in, please direct them to the NPTDR Data Manager at Thales (nptdr.datamanager@thalesgroup.com).

## **12. Common Questions**

### **Q: I can't connect via FTP – I get a message like “server not known” or “cannot connect”**

A: Contact your IT department to check if all or some addresses are blocked. You may have to use the web browser interface instead.

### **Q: I've entered the username & password; why won't it let me in?**

A: Check that you are using correct capitalisation; also the digit '1' and letter 'l' look very similar. Failing that, contact the helpdesk (nptdr.datamanager@thalesgroup.com).

### **Q: Do I need my own personal username & password?**

A: No – we are basically issuing one per local authority for use by the authority or their nominees.

### **Q: Can I download data for any area?**

A: Yes you can.

### **Q: When I try to download all the site's data (or a lot of data) in one go, nothing happens?**

A: Your web browser may time-out before the NPTDR website has completed preparing all the data for the download. Try downloading 20 directories at a time.

### **Q: There's no data for my area (or no ferry data, etc.)**

A: Check Section 7 of this guide. If this does not provide an answer then it may be that no data has yet been supplied to us for inclusion. If you believe it has been, then please notify the DfT (contact details are on the web site).



**Q: Why is there no XML NPTG file?**

A: NPTDR uses NaPTAN/NPTG version 1 data exclusively; NPTG version 1 does not have an XML format, unlike NaPTAN.

**Q: When I use FINDSTR the command freezes or the results scroll up screen instead of going to a file**

A: Check your command matches the examples; if it does then try omitting or adding (as appropriate) the caret ^ symbol.

**Q: Should I use the timetable CIF or TXC files?**

A: The content is identical, but you may find that Accession runs quicker if you use the TXC files. In a very few cases a TXC file may not be available because the CIF equivalent cannot be converted to valid TXC.

**Q: Who runs NPTDR?**

A: Thales operate it on behalf of the DfT.

**Q: How often is the data updated and when are updates available?**

A: The data is an annual snapshot of a week in October and is updated each year. Data is usually published in January.

**Q: What are the dates of the collection weeks?**

A: They are published on the web site.

**Q: Can I use the data for commercial purposes?**

A: You must contact Intracore (contact details are on the web site) for details of commercial licensing of the data. Your use of data is governed by the NPTDR Data User Agreement; contact the helpdesk (nptdr.datamanager@thalesgroup.com) if you have any general queries.

**Q: Can I use the data to build a public journey planner?**

A: NPTDR is an historic snapshot of route and timetable data for just one week in October each year, and it is not suitable for public-facing information services; accordingly the data user agreement specifically precludes the use of NPTDR data for any public-facing information service.

**Q: Where can I find a specification of the CIF, XML, TXC, etc. formats?**

A: The web site [www.public-transport.org.uk](http://www.public-transport.org.uk) links to sites containing most of the specifications. The ATCO-CIF specification can be found on the web site [www.travelinedata.org.uk](http://www.travelinedata.org.uk).

### 13. Area & National ATCO Codes

This is a list of the ATCO code for each of the 141 local authorities.

§ indicates that you should refer to Section 7 for further details.

Traveline Region	ATCO Local Authority Area Code
S	639 Aberdeen City
S	630 Aberdeenshire
S	649 Angus
S	607 Argyll & Bute
SW	018 Bath and North East Somerset
SE	020 Bedfordshire
NW	258 Blackburn with Darwen §
NW	259 Blackpool: see Lancashire §
W	532 Blaenau Gwent
SW	129 Bournemouth
SE	038 Bracknell Forest
W	551 Bridgend
SE	149 Brighton and Hove
SW	010 Bristol, City of
SE	040 Buckinghamshire
W	554 Caerphilly
EA	050 Cambridgeshire
W	571 Cardiff
W	522 Carmarthenshire
W	523 Ceredigion
NW	060 Cheshire
S	620 City of Edinburgh
S	668 Clackmannanshire
W	513 Conwy
SW	080 Cornwall and Isles of Scilly
NE	090 Cumbria §
NE	076 Darlington §
W	511 Denbighshire
EM	109 Derby
EM	100 Derbyshire
SW	110 Devon
SW	120 Dorset

S	680	Dumfries & Galloway
S	640	Dundee City
NE	130	Durham §
S	618	East Ayrshire
S	611	East Dunbartonshire
S	627	East Lothian
S	612	East Renfrewshire
Y	220	East Riding of Yorkshire
SE	140	East Sussex
SE	150	Essex
S	669	Falkirk
S	650	Fife
W	512	Flintshire
S	609	Glasgow City
SW	160	Gloucestershire
L	490	Greater London §
NW	180	Greater Manchester
W	540	Gwynedd
NW	068	Halton
SW	190	Hampshire
NE	075	Hartlepool §
WM	209	Herefordshire, County of
SE	210	Hertfordshire
S	670	Highland
S	613	Inverclyde
W	541	Isle of Anglesey
SE	230	Isle of Wight
SE	240	Kent
Y	229	Kingston upon Hull, City of
NW	250	Lancashire (inc. Blackpool) §
EM	269	Leicester: see Leicestershire §
EM	260	Leicestershire (inc. Leicester) §
EM	270	Lincolnshire
SE	029	Luton
SE	249	Medway
NW	280	Merseyside
W	553	Merthyr Tydfil
NE	079	Middlesbrough §
S	628	Midlothian
SE	049	Milton Keynes

W	533	Monmouthshire
S	638	Moray
W	582	Neath Port Talbot
W	531	Newport
EA	290	Norfolk
S	617	North Ayrshire
EM	228	North East Lincolnshire
S	616	North Lanarkshire
EM	227	North Lincolnshire
SW	019	North Somerset
Y	320	North Yorkshire
EM	300	Northamptonshire
NE	310	Northumberland §
EM	339	Nottingham
EM	330	Nottinghamshire
S	602	Orkney Islands
SE	340	Oxfordshire
W	521	Pembrokeshire
S	648	Perth & Kinross
EM	059	Peterborough
SW	118	Plymouth
SW	128	Poole
SW	199	Portsmouth
W	561	Powys
SE	039	Reading
NE	078	Redcar and Cleveland §
S	614	Renfrewshire
W	552	Rhondda, Cynon, Taff
EM	268	Rutland
S	690	Scottish Borders
S	603	Shetland Islands
WM	350	Shropshire
SE	037	Slough
SW	360	Somerset
S	619	South Ayrshire
SW	017	South Gloucestershire
S	615	South Lanarkshire
Y	370	South Yorkshire
SW	198	Southampton
SE	158	Southend-on-Sea

WM	380	Staffordshire
S	660	Stirling
NE	077	Stockton-on-Tees §
WM	389	Stoke-on-Trent
EA	390	Suffolk
SE	400	Surrey
W	581	Swansea
SW	468	Swindon
WM	359	Telford and Wrekin
SE	159	Thurrock
SW	119	Torbay
W	534	Torfaen
NE	410	Tyne and Wear §
W	572	Vale of Glamorgan, The
NW	069	Warrington
WM	420	Warwickshire
SE	030	West Berkshire
S	608	West Dunbartonshire
S	629	West Lothian
WM	430	West Midlands
SE	440	West Sussex
Y	450	West Yorkshire
S	601	Western Isles
SW	460	Wiltshire
SE	036	Windsor and Maidenhead
SE	035	Wokingham
WM	200	Worcestershire
W	514	Wrexham
Y	329	York

This is a list of current & future national codes:

ATCO Code	Local Authority Area
900	Coach
910	National Rail
920	Airports
930	Ferry Ports
940	Metro