



OS OPEN NAMES[™] – GETTING STARTED GUIDE

ORDNANCE SURVEY GB

Version	/ersion history						
Version	Date	Description					
1.1	2019	First release of the document.					
2.0	01/2023	Full restructure and update of the content					

Purpose of this document

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

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Contact details

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

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I. Introduction to the product

OS Open Names is a geographic directory that contains basic information about identifiable places in Great Britain. The content is divided into themes based on type and local type classification values. The data contains accurate and current settlement names, road names and numbers, postcodes and their locations, additional contextual information and links to other datasets. The primary use of the product is to provide the location of named places to support a wealth of activities, such as discovery, identification, visualisation, geocoding, routing and navigation, and linking of diverse information.



Figure 1: OS Open Names example map showing geographical locations for identifiable places.

This getting started guide focusses on using the product in comma-separated values (CSV) format.

For guidance on using the product in GeoPackage format, please see the separate *Getting started with GeoPackage* guide, which is available on the <u>OS Open Names support page of the OS website</u> (https://www.ordnancesurvey.co.uk/business-government/tools-support/open-map-names-support).

2. Obtaining OS Open Names data

2.1 Product supply

The OS Open Names product is supplied in three formats (CSV, GML and GeoPackage) as an online download and as an application programming interface (API), both of which can be accessed from the <u>OS</u> <u>Data Hub</u> (https://osdatahub.os.uk/).

2.2 Update schedule

Updates are supplied quarterly (January, April, July and October) and are provided as a complete resupply. Any features that are deleted between supplies are not included in the resupply.

2.3 Coverage

OS Open Names covers named places for Great Britain.

2.4 File size

The approximate file size of each data format is as follows:

- CSV: 1.65Gb
- GML: 9.1Gb
- GeoPackage: 2.1Gb

2.5 File structure

2.5.1 CSV

The file structure of OS Open Names CSV format supply is:

- Root folder: *Readme.txt* (summary of supplied data).
 - Doc folder: OS_Open_Names_Headers.csv (description of column headers) and *licence.txt* (important licencing information).
 - Data folder: 819 files in CSV format. Each file contains data for a 20x20km area labelled with the corresponding grid reference, for example HP40.csv.

The structure of OS Open Names supplied in CSV is described in the Technical Specification available on the <u>OS Open Names support page of the OS website (https://www.ordnancesurvey.co.uk/business-government/tools-support/open-map-names-support</u>).

2.5.2 GeoPackage

The file structure of OS Open Names GeoPackage format supply is:

- Root folder: *Readme.txt* (summary of supplied data).
 - Doc folder: *licence.txt* (important licencing information).
 - Data folder: opname_gb.gpkg (single file in GeoPackage format). This file is a self-contained database.

The structure of OS Open Names supplied in GeoPackage is described in the Technical Specification available on the <u>OS Open Names support page of the OS website</u> (https://www.ordnancesurvey.co.uk/business-government/tools-support/open-map-names-support).

2.5.3 GML

The file structure of OS Open Names GML format supply is:

- Root folder: *Readme.txt* (summary of supplied data).
 - Doc folder: OS_Open_Names_Headers.csv (description of column headers) and *licence.txt* (important licencing information).
 - Data folder: 819 files in GML format. Each file contains data for a 20x20km area labelled with the corresponding grid reference, for example HP40.gml.

The structure of OS Open Names supplied in GML format is described in the product's Technical Specification, which is available on the <u>OS Open Names support page of the OS website</u> (<u>https://www.ordnancesurvey.co.uk/business-government/tools-support/open-map-names-support</u>).

2.6 Metadata

OS Open Names metadata is ISO 19115 UK GEMINI 2 compliant. For more information, see <u>OSOpenNames.xml</u> (<u>https://www.ordnancesurvey.co.uk/xml/products/OSOpenNames.xml</u>) on the <u>Product</u> <u>and service metadata page of the OS website</u> (<u>http://www.ordnancesurvey.co.uk/oswebsite/xml/products/</u>).</u>

3. CSV file processing

As OS Open Names data is supplied in separate CSV files labelled by two-digit grid references, the files require processing before you can load them into a GIS.

3.1 Moving the header CSV file

The first step is to combine the individual CSV files with the header CSV file.

To move and rename the header CSV file:

- 1. Extract opname_csv_gb.zip to a folder on your computer.
- 2. Open the Doc folder and either move or copy OS_Open_Names_Header.csv into the Data folder.
- 3. Rename OS_Open_Names_Header.csv to a_OS_Open_Names_Header.csv.

Adding the "a_" prefix ensures that the files will be merged in the correct order. The header file will be added first in the output file as it is now at the top of the file list.

Name	
1 a_	OS_Open_Names_Header.csv
🔊 H	P40.csv
R 🔁	P60.csv

Figure 2: Screenshot in Windows Explorer showing renamed header CSV displayed at the top of the file list.

3.2 Combining multiple CSV files

This section contains an example of one way to combine the individual CSV files into a single file using a batch (.bat) file.

Note: The combined CSV file will be approximately 1.7Gb with about 2.9 million records. If opened in Microsoft Excel, only the first million records can be seen as the software cannot display more than this.

To combine the CSV files using a batch function:

- 1. Copy the following text and paste it into a new Notepad file: copy *.csv outputfile.csv.
- 2. Save the Notepad file with the .bat file extension (for example, *combine_csv.bat*) in the Data folder that contains the 819 CSV files.
- 3. Close the .bat file, navigate to the Data folder and double click on the batch (.bat) file that you saved in the previous step.

A MS-DOS window will open automatically and then close when the process is complete.

4. A new CSV file named *outputfile.csv* will display in the Data folder. You can now delete the other CSV files if you like.

outputfile.csv contains the content previously in the 819 individual CSV files that was copied over during the batch file process.

Name	Date modified	Туре	Size
🔊 outputfile.csv	05/01/2023 16:54	Microsoft Excel C	1,731,138 KB
combine_csv.bat	05/01/2023 16:54	Windows Batch File	1 KB

Figure 3: Screenshot in Windows Explorer showing *outputfile.csv* and *combine_csv.bat*.

You will now have an output file that is ready to be used in a GIS application or database.

Note: outputfile.csv might be too large to be opened in a text editor.

4. Loading the data in a GIS

This section describes how to load the <u>combined CSV output file</u> into five commonly-used GIS applications:

- <u>QGIS</u>
- <u>ArcGIS Pro</u>
- <u>ArcMap</u>
- <u>MapInfo Pro</u>
- <u>Cadcorp SIS Desktop</u>

4.1 QGIS

The following step-by-step instructions show you how to load OS Open Names CSV files into QGIS. They were prepared using QGIS Desktop version 3.

QGIS is an open-source GIS in which you can create, edit, visualise and publish geographic information. You can download it for free from the <u>Download QGIS for your platform page of the QGIS website</u> (<u>http://www.qgis.org/en/site/forusers/download.html</u>).

4.1.1 Loading and displaying the CSV supply

To load and display CSV data in QGIS:

- 1. Open an existing project in QGIS or create a new one.
- 2. From the Layer tab, click Add Layer > Add Delimited Text Layer... or click ⁷₀ in the Manage Layers toolbar.

Layer Settings Plugins Vector Raster	<u>D</u> atabase <u>V</u>	<u>N</u> eb	<u>M</u> esh Pro <u>c</u> essing <u>H</u> elp	
녍 Data Source Manager	Ctrl+L		🛄 🕓 🎜 🔍 🗐 📓 🌞 \Sigma 🛲 🗕 🖓	🔍 🕶 🔽 💌
Create Layer		- •	ii abc 🕋 (abc) (abc) (abc) (abc) (abc) (abc) iii	
Add Layer		►	V° Add Vector Layer	Ctrl+Shift+V
Embed Layers and Groups			📲 Add Raster Layer	Ctrl+Shift+R
Add from Layer Definition File			🞇 Add Mesh Layer	
🖹 Copy Style			🤊 Add Delimited Text Layer	Ctrl+Shift+T
Paste Style			🗣 Add PostGIS Layers	Ctrl+Shift+D
🖹 Copy Layer			🎤 Add SpatiaLite Layer	Ctrl+Shift+L
🖹 Paste Layer/Group			Ndd MSSQL Spatial Layer	

Figure 4: QGIS UI showing the Layer > Add Layer > Add Delimited Text Layer menu option.

- 3. In the Data Source Manager | Delimited Text dialog:
 - a. File name: Click the ellipsis button (...), then navigate to and select the saved outputfile.csv.
 - b. File Format: Select CSV (comma separated values).
 - c. Record and Fields Options: Select First Record has field names.
 - d. Geometry Definition:
 - i) Point coordinates: Select this option.
 - ii) X field: Choose Eastings (or EA if the abbreviated column header was selected).
 - iii) Y field: Choose Northings (or NO if the abbreviated column header was selected).
 - iv) Geometry CRS: Select EPSG:27700 OSGB 1936 / British National Grid.
 - e. Click Add.

	File name C	: (USU atta (US_Open_Names	ppname_csv_gpipataiputputfile.csv							
	Layer name	outputfile							Encodin	.g UTF-8
	▼ File F	ormat								
	e cs	V (comma separated values)								
"	O Re	gular expression delimiter								
mited Text	Cu	stom delimiters								
Package	▼ Reco	rd and Fields Options								
	Numbe	of header lines to discard	0	÷	Decimal separator is	comma				
preSQL	V, Fr	t record has field names			Trim fields					
	✔ De	ect field types			Discard empty fields					
	▼ Geor	netry Definition								
	e Po	nt coordinates	x field GEOMETRY_X		▼ Z fie	ы				
		I known text (MKT)	Y field GEOMETRY_Y		* M 6	bld				
	0	and desc (mill)	DMS coordinates							
	O No	geometry (attribute only tal	(e) Geometry CRS EPSG:27700 - OSGB 1936 / British P	Vational Grid						Ŧ
OGC API - Features	▶ Laye	r Settings								
	Sample	Data								
		ID	NAMES URI	NAME1	NAME1 LANG NAME2	NAME2 LANG	TYPE	LOCAL TYPE	GEOMETRY	X GEOMETR
	1 os	gb4000000074541653 http	://data.ordnancesurvey.co.uk/id/4000000074541653	Westing			populatedPlace	Other Settlement	457077	1205289
	2 os	gb400000074557431 http	://data.ordnancesurvey.co.uk/id/400000074557431	Underhoull			populatedPlace	Other Settlement	457621	1204421
Map Service										

Figure 5: QGIS Data Source Manager | Delimiter Text dialog.

It may take a while for the data to load into the map pane. The result will look similar to the example below. OS Maps API Light 27700 was used as the background map for this example.



Figure 6: QGIS UI showing loaded OS Open Names data in the map pane.

4. Save outputfile in the format of your choosing.

This will avoid having to repeat the process of geoprocessing outputfile.csv every time you need to use it.

4.2 ArcGIS Pro

The following step-by-step instructions show you how to load OS Open Names CSV files into ArcGIS Pro. They were prepared using version 3.0.

4.2.1 Loading and displaying the CSV supply

To load and display CSV data in ArcGIS Pro:

- I. Open ArcGIS Pro and create a new project.
- 2. In the Create a New Project dialog:
 - a. Name: Enter a project name. Open_Names in this example.
 - b. Location: Browse to and select the location to which you want to save the project.
 - c. Create a new folder for this project: Leave this option selected (default setting).
 - d. Click OK.

Create	a New Project		х
Name	Open_Names		
Location	D:\Open_Names\ArcPro		**
	✓ Create a new folder for this project		
		OK Cano	el

Figure 7: ArcGIS Pro Create a New Project dialog,

3. When the project opens, add a background map for geographic context.

OS Maps API Light 27700 was added as the background map in this example.

4. From the Map tab, click Add Data > XY Point Data.

Project	Мар	Insert	Analysis	View	Edit	Imag	gery	Share		
Paste	t py py Path	Explore	Bookmarks		Basemap	Add Data •	Add Preset •	Select	Select By Attributes	Select By Location
Clipboar	d	١	lavigate	G.		📛 Da	ata			-
Contents			→ ₽ ×		Мар 🗙	Ad	d data to	o the ma	p.	L
Search			- م			ö Da	ata Fron Id data u	n Path sing a lo	cal path or	URL.
Drawing Order						XY Ad	/ Point ld x,y po	Data int data	to the map	

Figure 8: ArcGIS Pro UI showing the Map > Add Data > XY Point Data menu option.

A Geoprocessing pane will open to the right side of the map pane.

- 5. In the Geoprocessing pane:
 - a. Input Table: Click in to navigate to and select outputfile.csv.
 - b. Output Feature Class: This will auto-populate.
 - c. X Field: Select GEOMETRY_X
 - d. Y Field: Select GEOMETRY_Y
 - e. Coordinate System: Select Current Map [Map].

This will populate as British National Grid as OS Maps API Light 27700 map was added as a background map (step 3. above).

Geoprocessi	ng	- □ ×
e	XY Table To Point	\oplus
Parameters E	invironments	?
Input Table		
outputfile.csv	E.	- 🧰
Output Featur	e Class	
outputfile_X\	(TableToPoint	
X Field		
GEOMETRY_)	< compared with the second sec	•
Y Field		
GEOMETRY_	(-
Z Field		
		•
Coordinate Sy	vstem	
British_Natio	nal_Grid	•

Figure 9: ArcMap Pro Geoprocessing pane showing Parameters field options.

f. Click Run at the bottom right of the Geoprocessing pane.



Figure 10: ArcMap Pro Geoprocessing pane showing Run button and initialization progress.

It may take a while for the data to load into the map pane. The result will look similar to the example below.



Figure 11:ArcGIS Pro UI showing loaded OS Open Names data in the map pane.

This process results in the creation of a new file geodatabase in the new folder that was selected when the project was created (step 2. above).

4.3 ArcMap

The following step-by-step instructions show you how to load OS Open Names CSV files into ArcMap. They were prepared using version 10.7.1.

4.3.1 Loading and displaying the CSV supply

To load and display CSV data in ArcMap:

- I. Open ArcMap.
- 2. Click 💠 (Add Data button) in the toolbar.



Figure 12: ArcMap toolbar.

3. In the Add Data dialog, navigate to and select *outputfile.csv*, and then click Add.

Add Data			×
Look in: 📔] CSV	✓ 📤 🏠 🗔 🇰 ▾ 💈	- ei ti 😜
ILL.CSV m.CSV me.CSV mk.CSV ml.CSV n.CSV ne.CSV ng.CSV nn.CSV		np.csv nr.csv nw.csv ol.csv outputfile.csv pa.csv pa.csv pe.csv ph.csv	
<			>
Name: Show of type:	outputfile.csv	~	Add Cancel
	bataseta, cayera ana resarta	-	

Figure 13: ArcMap Add Data dialog.

4. The file will now display in the Table Of Contents.

File	Edit	View	Bookmar	rks	Insert	Selection	Ge
: 🗅 🛛	2 🖬	618	. 🖻 🔒	\times	50	🛧 - 1	:15,0
: 🔍 (I Seal	🎱 🖁	K K X 🔶		12 -	M 🕅	1
Table (Of Cont	ents					Ψ×
°a: 🖣] 😞 (5 🔁					
• 9	Layer	s					
-	🛅 D:	\cpTech	Spec\cpO	pen\[Data\CS	V	
		output	tfile.csv				

Figure 14: ArcMap Table Of Contents.

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5. Right-click *outputfile.csv* in the Table of Contents and select *Display XY data...* in the context menu.



Figure 15: ArcMap Table Of Contents showing the Display XY Data... action selected in the context menu.

- 6. In the Display XY Data dialog:
 - a. X Field: Select GEOMETRY_X
 - b. Y Field: Select GEOMETRY_Y
 - c. Coordinate System of the Input Coordinates: Select British National Grid.
 - d. Click OK.

Display XY Dat	Display XY Data X						
A table containing X and Y coordinate data can be added to the map as a layer							
Choose a table t	from the map or browse for another	table:					
outputfile.	CSV	<u> </u>					
Specify the fie	lds for the X, Y and Z coordinates:—						
X Field:	GEOMETRY_X	~					
Y Field:	GEOMETRY_Y	~					
Z Field:	<none></none>	~					
Description: Projected Coordinate System: Name: British_National_Grid Geographic Coordinate System: Name: GCS_OSGB_1936							
<		>					
Show Deta	ails	Edit					
Warn me if the resulting layer will have restricted functionality							
About adding X	Y data OK	Cancel					

Figure 16: ArcMap Display XY Data dialog.

e. Click OK to close the warning dialog.

The Table Does Not Have Object-ID Field warning dialog alerts you to the fact that the resulting layer file is only a temporary table and needs to be saved (see step 7. below).



Figure 17: ArcMap Table Does Not Have Object-ID Field warning dialog.

It may take a while for the data to load into the map pane. The result will look similar to the example below. OS Maps API Light 27700 was used as the background map for geographic context.



Figure 18: ArcMap UI showing loaded OS Open Names data in the map pane.

To use the points in a meaningful way, you need to save the layer as a shapefile.

- 7. To save the layer as a shapefile:
 - a. Right-click *outputfile.csv* Events in the Layers panel and then click Export in the context menu.
 - b. In the Export Data dialog, browse to and select a filename for the data, and then click OK.

Export D	lata	×
Export:	All features	~
Use the s	ame coordinate system as:	
this la	yer's source data	
O the da	ata frame	
O the fe (only a	ature dataset you export the data into applies if you export to a feature dataset in a geodatabase)	
Output fe	ature class:	
D:\Tech	hSpech\Open_Names\open_names.shp	8
	OK Cano	el

Figure 19: ArcMap Export Data dialog showing selected shapefile.

The shapefile may take a while to create. You can monitor the progress in the Export Progress window that opens automatically. This window will close when the export is complete.

8. You will be given the option to add the newly created data to the workspace. Click Yes, to create a shapefile (and associated files) at the chosen location.



Figure 20: ArcMap alert dialog providing the option to add exported shapefile to the map as a layer.

4.4 MapInfo Pro

The following step-by-step instructions show you how to load OS Open Names CSV files into MapInfo. They were prepared using version MapInfo Pro 2019 (release build 58).

4.4.1 Loading and displaying the CSV supply

To load and display CSV data in MapInfo Pro:

- I. Open MapInfo Pro.
- 2. Select Open > Blank Workspace.



Figure 21: MapInfo Pro Open > Blank Workspace action.

3. Add a background map for geographic context.

OS Maps API Light 27700 was added as the background map in this example.

4. From the HOME tab, click Open Table.



Figure 22: MapInfo Pro Home > Open Table action.

- 5. In the Open dialog:
 - a. Files of type: Change MapInfo.tab to Comma delimited CSV (*.csv).
 - b. Browse to and select *outputfile.csv*.
 - c. Click Open.

🕼 Open						×
Look in:	CSV	~	G 🤌 📂 🛄 🗸			2
A=	Name	^	Date modified	Туре	Size	^
-	B ll.csv		26/07/2022 12:10	Microsoft Excel C	1.641 KB	
Tables	🖾 In.csv		26/07/2022 12:09	Microsoft Excel C	920 KB	
Directory	🖾 ls.csv		26/07/2022 12:09	Microsoft Excel C	1.967 KB	
4	🖾 lu.csv		26/07/2022 12:09	Microsoft Excel C	567 KB	
Deverete Teleler	🖾 m.csv		26/07/2022 12:09	Microsoft Excel C	2.845 KB	
Directory	🖾 me.csv		26/07/2022 12:10	Microsoft Excel C	1.594 KB	
	🖾 mk.csv		26/07/2022 12:10	Microsoft Excel C	1,416 KB	
-	🖾 ml.csv		26/07/2022 12:10	Microsoft Excel C	784 KB	
Import Files	🖾 n.csv		26/07/2022 12:10	Microsoft Excel C	1,546 KB	
Directory	🖾 ne.csv		26/07/2022 12:10	Microsoft Excel C	3,000 KB	
<u> </u>	🖾 ng.csv		26/07/2022 12:10	Microsoft Excel C	2,815 KB	
	🖾 nn.csv		26/07/2022 12:10	Microsoft Excel C	1,489 KB	
Workspaces	p.csv		26/07/2022 12:10	Microsoft Excel C	1,123 KB	
Directory	🖾 nr.csv		26/07/2022 12:09	Microsoft Excel C	2,339 KB	
	nw.csv		26/07/2022 12:09	Microsoft Excel C	1,255 KB	
	🖾 ol.csv		26/07/2022 12:09	Microsoft Excel C	1,180 KB	
	Di outputfile.cs	iv.	13/10/2022 13:38	Microsoft Excel C	157,397 KB	
	a ox.csv		26/07/2022 12:10	Microsoft Excel C	1,980 KB	
	pa.csv		26/07/2022 12:10	Microsoft Excel C	762 KB	
	pe.csv		26/07/2022 12:09	Microsoft Excel C	2,615 KB	
	ph.csv		26/07/2022 12:10	Microsoft Excel C	496 KB	
	Di.csv		26/07/2022 12:10	Microsoft Excel C	1,598 KB	
	🔯 po.csv		26/07/2022 12:10	Microsoft Excel C	2,291 KB	
	pr.csv		26/07/2022 12:10	Microsoft Excel C	1,289 KB	
	🔯 rg.csv		26/07/2022 12:10	Microsoft Excel C	2,171 KB	
	🖾 rh.csv		26/07/2022 12:10	Microsoft Excel C	1,593 KB	
	📧 rm.csv		26/07/2022 12:09	Microsoft Excel C	894 KB	
	🖾 s.csv		26/07/2022 12:10	Microsoft Excel C	3,084 KB	
	💶 sa.csv		26/07/2022 12:10	Microsoft Excel C	1,881 KB	
	🚺 se.csv		26/07/2022 12:10	Microsoft Excel C	1,848 KB	~
	-					
	Hile <u>n</u> ame:	outputtile.csv				✓ <u>O</u> pen
	Files of type:	Comma delimited CSV (*.csv)				 Cancel
	Preferred View:	Automatic				∼ <u>H</u> elp
MapInfo Places		Create copy in MapInfo format fo	or read/write			
O Standard Place	s					

Figure 23: MapInfo Pro Open dialog showing outputfile.csv selected.

- 6. In the Comma Delimited CSV Information dialog:
 - a. Delimiter: Ensure that Other is checked and that a comma is visible in the box next to it.
 - b. Check the Use First Line for Column Titles option.
 - c. Click OK.

Comma Delimited CSV Information	n X
Delimiter O Iab () Qther: ,	
File Character Set:	
	~
OK Cancel	<u>H</u> elp

Figure 24: MapInfo Pro Comma Delimited CSV Information dialog.

When the table has loaded, the outputfile Browser window will open. This may take a while.

MAP SP/	ATIAL I	LAYOUT RAST	ER ROUTEFINDER								
ew Table kport hiversal Translator	Select	SQL Invert	Update Append Add New Clear Map Column Rows Row Objects	Info Hotlink Hotlink Hotlink Options	Pick Fields Fill Font Image: Solution of the second of th	er + @ S t + @ R an All 않₀	ort On / Off e-Sort Add to Map	ble Database	Ubrary - Raster - Web Services - Calculate Statistics		
	1	Selection	Edit	browser loois		Sort and P	inter	Maintenan	ce Calculate		_
III outputfile I	Browser 🧕										
ID		NAMES_URI		NAME1	NAME1_LAN	G NAME2	NAME2_LANG	TYPE	LOCAL_TYPE	GEOMETRY_X	GEOM
osgb400000	0074541653	3 http://data.ordn	ancesurvey.co.uk/id/4000000074541653	Westing				populatedPlace	Other Settlement	457,077	1,2
osgb400000	0074557431	http://data.ordn	ancesurvey.co.uk/id/4000000074557431	Underhoull				populatedPlace	Other Settlement	457,621	1,2
osgb400000	0074557428	http://data.ordn	ancesurvey.co.uk/id/4000000074557428	Gunnister				populatedPlace	Other Settlement	458,754	1,2
osgb400000	0074569332	http://data.ordn	ancesurvey.co.uk/id/4000000074569332	Gloup				populatedPlace	Hamlet	450,678	1,
osgb400000	0074568983	8 http://data.ordn	ancesurvey.co.uk/id/4000000074568983	Midbrake				populatedPlace	Hamlet	453,085	1,2
osgb400000	0074557427	http://data.ordn	ancesurvey.co.uk/id/4000000074557427	Uyeasound				populatedPlace	Other Settlement	459,634	1,2
osgb400000	0074557429	http://data.ordn	ancesurvey.co.uk/id/4000000074557429	Burragarth				populatedPlace	Other Settlement	457,899	1,2
osgb400000	0074568982	http://data.ordn	ancesurvey.co.uk/id/4000000074568982	Cullivoe				populatedPlace	Village	454,263	1,
osgb400000	0074557430	http://data.ordn	ancesurvey.co.uk/id/4000000074557430	Wick				populatedPlace	Hamlet	457,132	1,2
ZE29DN		http://data.ordn	ancesurvey.co.uk/id/postcodeunit/ZE29D	N ZE2 9DN				other	Postcode	459,957	1,2
ZE29DW		http://data.ordn	ancesurvey.co.uk/id/postcodeunit/ZE29D	W ZE2 9DW				other	Postcode	458,757	1,2

Figure 25: MapInfo Pro outputfile Browser window

7. To create the points from the table, from the SPATIAL tab click Create > Create Points.

MAP SPATIAL L	AYOUT RASTER ROUTEFINDER								
Image: Second secon	Clear Erase Internet Erase Molegy generate Molegy generate Mol	fy Fix/Clean Transform	Convert Calculate	Clip Res Clip Res Clip III Clear N	slon - N er Setup Aap Objects	sert Style Reg	ions Dimens	ion Create	Geocode
Selection	Ed	lit					Create	XY_	
outputfile Browser 🔹								Create	
ID	NAMES_URI	NAME1	NAME1_LANG	NAME2	NAME2_LANG	ТҮРЕ	LOCAL	Points	GE
osgb4000000074541653	http://data.ordnancesurvey.co.uk/id/4000000074541653	Westing				populatedPlace	Other S	XY/	
osgb4000000074557431	http://data.ordnancesurvey.co.uk/id/4000000074557431	Underhoull				populatedPlace	Other S	~	
osgb400000074557428	http://data.ordnancesurvey.co.uk/id/4000000074557428	Gunnister				populatedPlace	Other S	Line from Table	
osgb400000074569332	http://data.ordnancesurvey.co.uk/id/4000000074569332	Gloup				populatedPlace	Hamlet	\sim	
osgb400000074568983	http://data.ordnancesurvey.co.uk/id/400000074568983	Midbrake				populatedPlace	e Hamlet	XY	

Figure 26: MapInfo Pro UI showing the Spatial > Create > Create Points action and the outputfile Browser window.

- 8. In the Create Points dialog:
 - a. Projection: Change this from Longitude / Latitude (WGS 84) to British National Grid [EPSG:27700].

The easiest way to do this is to click the ellipsis button (to the right of the Projection field), press B on your keyboard 6 times, highlight British National Grid [EPSG:27700] in the results, and then click OK.

b. using Symbol: Optionally, change the symbol from a square (default style) by clicking the symbol button and following the instructions.

This example uses a red star that is more visible than the default square.

- c. Leave the other settings as they are (including Get X Coordinates from: GEOMETRY_X and Get Y Coordinates from: GEOMETRY_Y).
- d. Click OK.

Create Points	
Create Points for Table: outputfile	~
Projection: British National Grid	
Add to Map: 🔢 📓	~
Overwrite points	using Symbol: 🔺
Coordinates	
Get X Coordinates from: GEOMETRY_X	~
Multiply by: 1	
Get Y Coordinates from: GEOMETRY_Y	~
Multiply by: 1	
Display non-numeric fields	
OK Cancel	Help

Figure 27: MapInfo Pro Create Points dialog.

A progress bar will display and then close automatically when the geoprocessing is complete.

Status				×
Creating	points for table	e outputfile		
280 (083 points crea 0 already proce	ated ssed		
0	25	50	75	100
		Stop		

Figure 28: MapInfo Pro geoprocessing Status dialog.

When the process is complete, the points will display in the map pane in your chosen point style. The result will look similar to the example below:



Figure 29: MapInfo Pro UI showing loaded OS Open Names data in the map pane.

A .tab file (and associated .MAP and .ID files) is automatically created in the same folder as outputfile.csv. However, these are temporary files created as part of the point creation process and are difficult to query.

- 9. To save the *outputfile* layer as a true .tab file:
 - a. From the HOME tab, click Save > Save Copy As.
 - b. In the Save Copy As dialog, select outputfile and click Save As...

Save Copy As	×
Save <u>T</u> able:	
Untitled	Save As
ou put me	Cancel
	Help

Figure 30: MapInfo Pro Save Copy As dialog with *outputfile* selected.

c. In the Save Copy of Table As dialog, navigate to the location where you would like to save the .tab file, name the file, select *MapInfo Extended* (*.tab) in the Save as type field, and then click *Save*.

Save III.	open_names		~	00	> 🔝 🔻	
Tables Directory	Name	\$			Date mod 09/01/202	ified 23 14:03
Directory						
	<					
orkspaces						
orkspaces Directory	File name:	open_names			~	Save
orkspaces irectory	File name: Save as type:	open_names MapInfo Exter	ded (*.tab)		~	Save Cancel
orkspaces Virectory	File name: Save as type:	open_names MapInfo Exter using view:	ded (*.tab) Automatic		~	Save Cancel Help
prkspaces Directory apInfo Places	File name: Save as type:	open_names MapInfo Exter using view:	ded (*.tab) Automatic		>	Save Cancel Help Projection

Figure 31: MapInfo Pro Save Copy of Table As dialog showing how to save *outputfile* as a true .tab file.

A progress bar will once again appear and then disappear when the save has completed.

The new .tab file, which is far easier to query, will now be available to use in MapInfo.

4.5 Cadcorp SIS Desktop

The following step-by-step instructions show you how to load OS Open Names CSV files into Cadcorp SIS. They were prepared using version 9.0.2275.64 9 (build date July 17, 2020).

4.5.1 Loading and displaying the CSV supply

To load and display CSV data in Cadcorp SIS:

- I. Open Cadcorp
- 2. From the File tab, click New > Blank Map.



Figure 32: Cadcorp UI showing the File > New > Blank Map action.

3. Add a background map for geographic context:

Cadcorp has incorporated the OS Data Hub Web Map Tile Service into their Overlays.

- a. Click Add Overlay > Ordnance Survey (GB) > OS (GB) Data Hub > OS Maps API.
- b. In the OS (GB) Data Hub confirmation dialog, select:
 - i) Yes, to use the default Cadcorp AKI key.
 - ii) No, to enter your own API key.
- c. Click Next>.



Figure 33: Cadcorp OS (GB) Data Hub dialog with the OS Maps API option selected.

d. Select your layer style and then click Finish.

There are four styles in two projections to choose from.

S Data Hub Map	s API Layers	>
← Select the C	IS Data Hub Maps API Layer to add	
Layers		
Light Style (Bri Map Tiles gener OS 'Light' style	tish National Grid) ated from OS Open Zoomstack and the OS MasterMap Topography Layer, in the	
Outdoor Style Map Tiles gener OS 'Outdoor' st	Birtish National Grid) ated from OS Open Zoomstack and the OS MasterMap Topography Layer, in the yle	
Road Style (Bri Map Tiles gener OS 'Road' style	tish National Grid) ated from OS Open Zoomstack and the OS MasterMap Topography Layer, in the	
Leisure Style (E Map Tiles gener	Iritish National Grid) ated from OS Leisure maps	
Light Style (Wo Map Tiles gener	iS 84 / Pseudo-Mercator) ated from OS Open Zoomstack and the OS MasterMap Topography Layer, in the	
OS 'Light' style,	in a CRS widely used on the web	Ŧ
OS 'Light' style, Tile Image Format:	in a CRS widely used on the web image/png	•

Figure 34: Cadcorp OS Data Hub Maps API Layers dialog.

You should now see the OS Maps API in your SIS Workspace Definitions.

Maps	▲ ☆ ×	Map 1 ×
 SIS Workspace Definitions Map 1 Map 1 GS Maps API 		

Figure 35: Cadcorp UI showing OS Maps API in SIS Workspace Definitions.

4. From the Create tab, click Insert > Insert Points from CSV File.



Figure 36: Cadcorp UI showing Create > Insert > Insert Points from a CSV File action.

- 5. Browse to and select outputfile.csv, and then click Next>.
- 6. In the Database file dialog:
 - a. File Type: Select Delimited.
 - b. Click Next>.

пе туре					
• Delimited	Fixed Width Code	page:	UTF-8 - Codepage 65001		
kip Lines					
Header:	Keep first line	Footer:	Regular Expression	E	
	100				
Sample rows:	100 *				
osgb40000000 osgb40000000 osgb40000000 osgb40000000 osgb40000000 osgb40000000	, NAME1 , NAME1_LF 174541653, http:/ 174557431, http:/ 174557428, http:/ 174569332, http:/ 174568983, http:/	ANG,NA //data //data //data //data //data	<pre>AME2, NAME2_LANG, TYPE a.ordnancesurvey.co. a.ordnancesurvey.co. a.ordnancesurvey.co. a.ordnancesurvey.co. a.ordnancesurvey.co. a.ordnancesurvey.co.</pre>	<pre>.LOCAL_TYPE,GE0 uk/id/40000007 uk/id/40000007 uk/id/40000007 uk/id/40000007 uk/id/40000007 uk/id/40000007</pre>	454 455 455 456 456
osgb4000000 osgb4000000 osgb4000000 osgb4000000 osgb4000000 osgb4000000 osgb4000000 ZE29DN,http: ZE29DN,http: ZE29DB,http: ZE29DE,http: ZE29DE,http: ZE29DE,http:	, NAME1, NAME1_LA 1745514653, http:/ 174557428, http:/ 174559322, http:/ 174568983, http:/ 174568983, http:/ 174557429, http:/ 174557429, http:/ 174557430, http:/ 174557430, http:/ 1/data.ordnance //data.ordnance //data.ordnance	NNG, NA //data //data //data //data //data //data //data //data esurve esurve esurve esurve	<pre>MME2_NAME2_LANG, TYPE a.ordnancesurvey.co. b.ordnancesurvey.co. b.o</pre>	<pre>E,LOCAL_TYPE,GE0 uk/id/40000007 uk/id/4000007 uk/id/4000007 uk/id/4000007 uk/id/40000007 uk/id/2290 uk/id/2290 uk/id/2290 uk/id/2290 uk/id/200 uk/</pre>	MET 4454 4455 4455 4456 4455 4455 455 9D 9D 9D 9B 9B 9D 9B 9D

Figure 37: Cadcorp Database file dialog showing Delimited option selected.

- 7. In the File format dialog:
 - a. Field Delimiter: Select Comma.

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- b. Select First Row Contains Field Names.
- c. Click Next>.

- Configure the delin	nited file format			
Field delimiter				
O Tab O Semicolon	Comma Ospace	Other:		
First Row Contains Fie	ld Names Text Qu	alifier: "		
Sample rows: 100	•			
ID	NAMES URI	NAME1	NAME1 LANG	
osgb4000000074	http://data.o	Westing		
osgb4000000074	http://data.o	Underhoull		
osgb4000000074	http://data.o	Gunnister		
osgb400000074	http://data.o	Gloup		
osgb4000000074	http://data.o	Midbrake		
osgb4000000074	http://data.o	Uyeasound		
osgb400000074	http://data.o	Burragarth		
osgb4000000074	http://data.o	Cullivoe		
osgb4000000074	http://data.o	Wick		
ZE29DN	http://data.o	ZE2 9DN		
ZE29DW	http://data.o	ZE2 9DW		
ZE29BB	http://data.o	ZE2 9BB		
ZE29DE	http://data.o	ZE2 9DE		
ZE29BZ	http://data.o	ZE2 9BZ		
ZE29DD	http://data.o	ZE2 9DD		
4				•

Figure 38: Cadcorp File format dialog showing Comma and First Row Contains Field Names options selected.

8. In the Database columns dialog, click Next>.

- 9. In the Recordset dialog, select which columns can be queried:
 - a. To select all columns, click *outputfile* in the Database Tables/Columns field and then click (forward icon).

This adds all columns to the Selected columns field on the right.

b. Click Next>.

atabase Tables/Columns:	Selected columns			
outputfile	Table	Column		
	outputfile	ID		Т
	outputfile	NAMES_UR	1	
	outputfile	NAME1		
	outputfile	NAME1_LAN	IG	
	outputfile	NAME2		
	outputfile	NAME2_LAN	IG	
	outputfile	TYPE		
	 outputfile	LOCAL_TYP	E	
	outputfile	GEOMETRY	_X	
	outputfile	GEOMETRY	_Y	
	outputfile	MOST_DET/	AIL_VI	E
	outputfile	LEAST_DET	AIL_V	1
	outputfile	MBR_XMIN		
	outputfile	MBR_YMIN		
	outputfile	MBR_XMAX		
	outputfile	MBR_YMAX		
	4		•	

Figure 39: Cadcorp Recordset dialog showing all output file columns in the Selected columns field.

10. In the View Points dialog:

- a. X Field: Select Geometry_X.
- b. Y Field: Select Geometry_Y.

The above settings determine which fields have your Easting and Northing.

c. Click Finish.

You can view the points created counter on the bottom left of the dialog.

View Points					د
Select ← the ot	which colu her fields a	umns contain f are optional	the relevant	information. The X and Y Fie	lds must be set, all of
Point Conf	iguration				
X Field:	GEOMETR	Y_X&		•	
Y Field:	GEOMETR	Y_Y&		*	
XY Units:	• Linear	O Angular	m		
Create	'Empty' Item	s for unusable co	ordinates		

Figure 40: Cadcorp View Points dialog showing Point Configuration field options.

It may take a while for the table to load in the map pane. The result will look similar to the example below.



Figure 41:Cadcorp UI showing loaded OS Open Names data in the map pane.

- 11. To make the points more visible:
 - a. Right-click Imported outputfile in SIS Workspace Definitions and then click Properties in the context menu.
 - b. In Geometry, select the Override checkbox next to the Pen, Brush and Symbol fields.
 - c. In Scale Overrides, change the entry in the Point field to -0.1.

Overlays								
General	Search Overlays			ρ	Geometry			Override
an 10	Name	*	Status	*	Pen:	Blue	*	\checkmark
Styles	OS Maps API		Visible		Bruch	Blue		
C 1	1 Imported outputfile		Editable	1	Drush.			•
Schema					Symbol:	Circle Bold	*	\leq
Themes					Colour:			
					Text			
Tempo					Font:	Noto Sans	*	
Dataset					Fill:	(default)		
Preview					Outline:	(default)	*	
					Scale Over	rrides		
					Overlay:	1		
					Point:	-0.1		

Figure 42: Cadcorp Overlays dialog showing *Styles* tab options.

The points will now be visible and will look similar to the example below.



Figure 43: Cadcorp UI showing loaded OS Open Names data with visible points in the map pane.