

**Reference Guide** 

### **One Analytics** Importing GIS Data

### **Preparing GIS Data For Import**

GIS data is used to denote specific geographic areas by creating and plotting polygons on a map. You can import GIS data to use within One Analytics via the One Analytics Import Tool. GIS data is held in a single table, to which imported data is added. There is no limit to the amount of GIS data you can import.

**NOTE:** You need a Pulse licence to use the import tool.

In order to import GIS data, it must be contained in a single CSV file and organised to match the GIS data table exactly. Converting GIS shape files to CSV format normally results in two separate files, one containing node data and the other containing attribute data. You must combine and format the data into a single CSV file prior to importing it. Each row of data must contain all the data for a single node and for the shape to which it belongs. The data columns in the CSV file must be organised in the following order and contain the correct data. The CSV file must have a header row, otherwise you will lose the first row of data.

**WARNING:** If you import new data with a **GIS\_Information\_Type** that already exists in the table, all data of that type is overwritten. When adding new data with an existing type, you must re-import all data of that type at the same time.

Column Name	Data Type	Source File			
GIS_Id	Unique row identifier. Prevents the duplication or overwriting of existing rows.	Node			
GIS_Source	Source Shape source identifier. Character limit: 5.   Example: ONS				
GIS_Information_Type	Name of the GIS shape set. Character limit: 128. Example: 20xx Authority School Catchments.	Attribute			
	<b>NOTE:</b> This is displayed throughout One Analytics, so should be brief and informative. If the shape set is likely to change, and you need to keep both old and new sets, you should include additional information to identify the shape version, e.g. the date.				
GIS_Unique_Id	Unique shape identifier.	Attribute/Node			
GIS_Code	Code used to identify the shape. All data rows belonging to the shape share this code. Character limit: 50.	Attribute/Node			
GIS_Name	Name used to identify the shape. All data rows belonging to the shape share this name. Character limit: 50.	Attribute			
GIS_Name_Welsh	Welsh name used to identify the shape. All data rows belonging to the shape share this name. Character limit: 50.	Attribute			
GIS_Shape_Name	Optional aditional shape name. Character limit: 10.	Attribute			
GIS_Main_Latitude	Latitude of the centre point of the shape. Character limit 28.17, i.e. 28 characters to the left of the decimal point, 17 to the right.	Attribute			
GIS_Main_Longitude	Longitude of the centre point of the shape. Character limit 28.17, i.e. 28 characters to the left of the decimal point, 17 to the right.	Attribute			
GIS_Point_Id	ID for the point within the shape. Separates sections of a shape that are not held as one, such as where a shape is subdivided by a geographical object like a river.	Node			
GIS_Point_Order	Integer that identifies the numerical position in the sequence of the points that create the shape. Used in plotting the edges of the shape.	Node			
GIS_Point_Latitude	Latitude of the point within the shape. Character limit 28.17, i.e. 28 characters to the left of the decimal point, 17 to the right.	Node			
GIS_Point_Longitude	Longitude of the point within the shape. Character limit 28.17, i.e. 28 characters to the left of the decimal point, 17 to the right.	Node			
GIS_Last_Updated_ Date.	Date when the data was created, received or last updated.				



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Before importing GIS data, ensure that it meets the criteria specified in the previous section. The CSV file should be set out as follows:

														GIS_Last_
	GIS_	GIS_Information_	GIS_Unique	2		GIS_Name_	GIS_Shape	GIS_Main	GIS_Main_	GIS_Point	GIS_Point	GIS_Point	GIS_Point_	Updated_
GIS_Id	Source	Туре	_ID	GIS_Code	GIS_Name	Welsh	_Name	_Latitude	Longitude	_ID	_Order	_Latitude	Longitude	Date
100000	LONS	ONS LSOA Data	656314	4 E01015693-1	007A-1	007A-1		51.9	-0.41	1	1	51.9	-0.41	
100000	2 ONS	ONS LSOA Data	65631	5 E01015693-1	007A-1	007A-1		51.9	-0.41	1	2	51.9	-0.41	
100000	3 ONS	ONS LSOA Data	65631	5 E01015693-1	007A-1	007A-1		51.9	-0.41	1	3	51.9	-0.41	
100000	4 ONS	ONS LSOA Data	65631	7 E01015693-1	007A-1	007A-1		51.9	-0.41	1	4	51.9	-0.41	
100000	5 ONS	ONS LSOA Data	65631	B E01015693-1	007A-1	007A-1		51.9	-0.41	1	5	51.9	-0.41	
100000	5 ONS	ONS LSOA Data	65631	9 E01015693-1	007A-1	007A-1		51.9	-0.41	1	6	51.9	-0.41	

To import GIS data:

1. Open the One Analytics Import Tool.

Import	Delete Dataset								
	Path Find File								
	Data Source Output Location Find a Location								
	Data Source Name								
[	Description								
	GIS Data?								
	f you wish to tag Statistical Neighbours in this data source, please tick the box below.								
	Tag Statistical Neighbour?								
(	Once you have ticked the box, please select the name of the column containing Local Authority ID's from the above dropdown menu.								
	Please then list the ID's of your Statistical Neighbours. Seperate each value with a comma (E.g. 101,102,103).								

- 2. Click the Find File button to display the Open dialog.
- 3. Locate and open the required dataset.
- 4. Select the GIS Data check box to deactivate the non-GIS fields.

Path	GisData.csv	Find File
Data Source Output Location		Find a Location
Data Source Name	GisData	
Description		
GIS Data?		
If you wish to tag Statistical Ne	ighbours in this data source, please tick the box below.	
Tag Statistical Neighbour		
Once you have ticked the box	, please select the name of the column containing Local Authority	ID's from the above dropdown menu.
Please then list the ID's of you	r Statistical Neighbours. Seperate each value with a comma (E.g.	101,102,103).

- 5. Click the Import button to display the Confirm Import warning dialog.
- 6. Click the Yes button.

The GIS data is imported and added to the table. An **Import Summary** dialog is displayed confirming that the import was successful.



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