Reference Guide

One Analytics
Importing GIS Data

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	Shape source identifier. Character limit: 5. Example: ONS	Attribute
GIS_Information_Type	Name of the GIS shape set. Character limit: 128. Example: 20xx Authority School Catchments. *NOTE: 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.*	Attribute
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_Id	GIS_ Source	GIS_Information_ Type	GIS_Unique _ID	GIS_ Code	GIS_Name	GIS_Name_ Welsh	GIS_Shape _Name	GIS_Main _Latitude	GIS_Main_ Longitude	GIS_Point_ _ID	GIS_Point _Order	GIS_Point_ Latitude	GIS_Point_ Longitude	GIS_Last_ Updated_ Date
1000001	ONS	ONS LSOA Data	656314	E01015693-1	007A-1	007A-1		51.9	-0.41	1	1	51.9	-0.41	
1000002	ONS	ONS LSOA Data	656315	E01015693-1	007A-1	007A-1		51.9	-0.41	1	2	51.9	-0.41	
1000003	ONS	ONS LSOA Data	656316	E01015693-1	007A-1	007A-1		51.9	-0.41	1	3	51.9	-0.41	
1000004	ONS	ONS LSOA Data	656317	E01015693-1	007A-1	007A-1		51.9	-0.41	1	4	51.9	-0.41	
1000005	ONS	ONS LSOA Data	656318	E01015693-1	007A-1	007A-1		51.9	-0.41	1	5	51.9	-0.41	
1000006	ONS	ONS LSOA Data	656319	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.

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.

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.

Related Reference Guides:
- RG_OA_Importing Datasets